



talemagroup

- Standard & Open Power Transformers 15VA - 1000VA •
- Encapsulated Toroidal Transformers 15VA - 500VA •
- Toroidal Transformers (12V Halogen Lamps) - 15VA-500VA •
- Toroidal Power Transformers (DIN Rail) - 12VA - 800VA •
- Special Mounting Power Transformers 5VA - 7.5KVA •
- Standard Mini Toroidal Transformers 1.6VA - 50VA •
- Medical Grade Isolation Transformers 50VA - 3000VA •
- Encapsulated PC Transformers 1.6VA-50VA & 35VA-160VA •

SECTION 1

Toroidal Transformers for Universal Application



Toroidal Transformers for Universal Application

TALEMA PROFILE

Founded in 1975, The TALEMA International Group has established itself as a world leader in the Design & Manufacture of toroidal transformers and related magnetic components. Our strong technical engineering expertise has contributed to the growth of our current workforce to over 800 employees in manufacturing locations in the Czech Republic and India.

Over the years The Talema Group has succeeded in designing, producing and delivering in excess of 50 million transformers to its customers. The recent incorporation of xDSL technology into our extensive range of Telecom and LAN magnetics offerings, such as ISDN, Ethernet transformers for 10/100/1000Base-T, has broadened our market offering to an even higher level.

QUALITY

The TALEMA Group has a total commitment to quality and employs Lean Six Sigma training for engineering, production and administrative staff to help achieve a goal of zero defects. All facilities maintain very stringent Quality Control and Quality Assurance procedures and are certified to and manufacture in accordance with ISO 9001:2015 (India) and ISO 9001:2016 (Czech Republic) and meet a broad range of International Standards including UL, VDE, IEC and EN.

ENVIRONMENT

All TALEMA International Group manufacturing facilities are RoHS & REACH Compliant and all chokes, inductors and HF Components are produced in an Environment Management System (EMS) facility certified to ISO 14001:2015 (India) and ISO 14001:2016 (Czech Republic).



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Visit our websites for detailed electrical and mechanical specifications for Talema's extensive line of magnetic components for Power Conversion, Telecom & LAN Applications:

www.talema.com

www.nuvotem.com

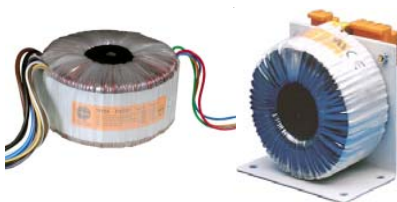
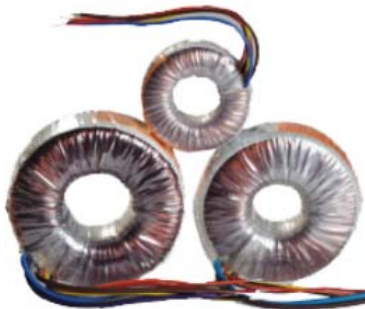
www.ntmagnetics.cz

Toroidal Transformers for Universal Application

Application

TALEMA Toroidal Transformers meet modern day requirements for a small size, low magnetic interference field transformer. Featuring an ideal physical construction, design engineer can expect outstanding and excellent Performance. Small size and weight (approx. 50% of the conventional transformers), extremely low noise and low magnetic interference field make the toroidal transformer ideal for compact power supplies. Modern production techniques make it possible to produce toroidal transformers at practically the same prices as conventional transformers making them ideal for a wide range of applications including:

- Professional audio equipment
- Computers and peripherals
- Video monitors
- Motor controls
- Compact power supplies
- Medical equipment
- Instrumentation
- Office machines
- Industrial control equipment
- Low voltage lighting



Volume and weight

The toroidal core has the optimal shape for producing a transformer with the minimum of material. Because the quality of the core is such a vital consideration for sensitive applications, TALEMA has invested heavily to provide extensive core manufacturing, annealing and testing facilities.

All windings are symmetrically spread over the entire core which makes the wire length very short. A higher flux density is possible as the magnetic flux is in the same direction as the rolling direction of the grain orientated core allowing significant savings of volume and weight. A higher current density can flow through the wire as the whole surface of the toroidal core allows efficient cooling of the copper windings.

The iron losses of the toroidal core are very small, typically 1.1W/kg at 1.7 Tesla and 50Hz, giving very small magnetizing current, which contributes to the excellent temperature rating of the toroidal transformer.

Efficiency

The toroidal shape gives a significantly higher efficiency compared to conventional transformers of the same size. The advantage is either an increased output power with the same size or a lower weight and smaller size at the same output power.



Transformer hum

Because there are no air gaps, there are no loose sheets which can vibrate. In addition, the high quality of the grain orientated silicone alloyed electric steel makes the magnetostriction very low, thus allowing the disturbing hum found in most common types of transformers to be almost completely eliminated.

Mounting Details

For sizes up to 1000VA, a low cost assembly can be made with a centering washer and a center screw or bolt. Transformers in the range of 15VA through 500VA can also be potted in standard Polyamid housings. All transformers can also be center potted either with a center hole or with a threaded insert



Production program

Standard Distribution:

Open wound, Standard and Mini; Encapsulated; Print & DIN Rail Transformers - 230V primary, with ENEC KEMA-KEUR marking

Customer standards:

Open wound, Encapsulated, Print, DIN Rail, a wide range of secondary voltages and mounting styles

Specials:

As per customer specification

- Power: 1.6VA - 7.5KVA per Phase
- Special Sizes; extremely flat or small diameter, i.e., upto 250VA with 96mm O.D for European P.C formats
- Electrostatic copper shielding
- Operating frequencies up to 20KHz
- Assembled 3 phase sets
- Magnetic shielding
- Potting in special housings for sizes upto 1.2KVA
- Secondary voltage available upto 1KV

Toroidal Transformers for Universal Application

Internationally Recognized Quality Systems and Regulatory Approvals

Factory / Process Approvals

ISO9001 approved quality systems ensure all our internal processes, from Design and development, to processing the incoming purchase orders, through Resource Planning, Scheduling and Production, right through to the delivery of the finished products run smoothly and efficiently.

Talema Electronic (India) Pvt. Ltd.,

ISO 9001:2015, Cert. No. 99 100 13735

ISO 14001:2015, Cert. No. 99 104 00381

NT Magnetics s.r.o.,

ISO 9001:2016, Cert. No. 09.186.461, revision No.1

ISO 14001:2016, Cert. No. 09.186.469, revision No.1

OHSAS 18001:2008, Cert. No. 09.186.482

Safety Agency Approvals

Talema has numerous approvals covering a wide variety of international standards and including both standard products and custom designed parts. By working closely with equipment designers and international test houses, Talema's engineering teams can assist in ensuring swift and smooth approval of equipment using its transformers and inductors.

Family Recognitions

Talema has invested considerable time and effort to obtain "family approvals" enabling automatic recognition of custom transformers without having to send each new design to a certified test facility for approval, saving the customer both time and money. UL Recognized components, DEKRA Approvals to European Standards, and IEC CB Certificates for worldwide approvals.

UL Approvals

Underwriters Laboratories : Recognised Components

Nuvotem Talema offer UL recognised components to several UL Standards. Our factories are audited regularly to ensure compliance. Our UL "Follow Up Services" or "FUS" is our detailed agreement with Underwriters Laboratories which ensures our products meet the relevant standards.

XPTQ2.E215495 Vol.1

UL5085 Low Voltage Transformers
Categories XPTQ2 & XPTQ8 (Canada)
Toroidal Isolating Transformers to 7500VA (7.5kVA)
Toroidal Auto-Transformers to 25000VA (25kVA)
Input 100V to 600V
Output Max 600V, Max 100A
Temperature Class 105(A), Class 130(B), Class 155(F)

XPTQ2.E215495 Vol.2

UL5085 Low Voltage Transformers
Categories XPTQ2 & XPTQ8 (Canada)
PCB Mounting Toroidal Transformers
Series 70000K, 1.6VA to 25VA

XORU2.E218027 Vol.1

UL62368-1 Audio/video, information and communication technology equipment
PCB Mounting Transformers 70000K series and 72400K Series

XORU2.E251176

UL60601-1 Medical Grade Transformers
Categories XORU2 & XOUR8 (Canada)
Toroidal Isolating Transformers to 15,000VA (15kVA)
Toroidal Auto-Transformers to 40,000VA (40kVA)
Maximum 600V Input and output
Maximum 1200V sum of input & Output voltages.
Temperature Class 105(A), Class 130(B), Class 155(F)

UL Recognised: UL Standard UL60601-1 1st Edition dated April 25th 2003; and ANSI/AAMI ES60601-1 (2005 + C1:09 + A2:10

C-UL Recognised: Canadian Standard C22.2 No 601.1 M90; and CSA C22.2 NO. 60601-1 (2008)

OBJY2.E217412

UL1446 Systems of Insulating Materials

Vol.1 Class 130(B) "Class B"
Vol.2 Class 130(B) "Class B1"
Vol.3 Class 155(F) "Class F"
Vol.4 Class 155(F) "Class F (Z200G)"
Vol.5 Class 130(B) "HIS-8B"

These insulation systems may be used alone, or together with our transformer approvals **E215495** or **E251176** to provide transformers with UL recognition to those standards, but with higher temperature classes.



Toroidal Transformers for Universal Application

IEC & European Approvals

Nuvotem Talema have a family approval file with DEKRA for Toroidal Power Transformers to EN61558. This is more than simply a range of standard parts with approvals. Our agreement with DEKRA allows us to design and build custom toroidal transformers which are instantly approved, without any additional testing required.

The same family is approved to IEC61558 under the IECEE CB Scheme
This "family" divided into ISOLATING and SAFETY-ISOLATING transformers.

DEKRA Approved to EN61558

Certificate 2161054.01

SAFETY Isolating Transformers

EN61558-1:2005 +A1:2009

EN61558-2-6:2009

Up to 6 primary windings

Up to 10 Secondary windings

Maximum total power rating: 3000VA

Maximum Input voltage : 440V

Maximum Output voltage : 50V (SELV Limit)

Either internal or external Overload Protection

Certificate 2161054.02

Isolating Transformers

EN61558-1:2005 +A1:2009

EN61558-2-4:2009

Up to 6 primary windings

Up to 10 Secondary windings

Maximum total power rating: 3000VA

Maximum Input voltage : 440V

Maximum Output voltage : 250V

External Overload Protection

IEC Approved to IEC61558 & IEC62368-1

IEC NL-27214

SAFETY Isolating Transformers

IEC 61558-1(ed2);am1

IEC 61558-2-6(ed2)

Maximum total power rating: 3000VA

Maximum Input voltage : 440V

Maximum Output voltage : 50V (SELV Limit)

IEC NL-27215

Isolating Transformers

IEC 61558-1(ed2);am1

IEC 61558-2-4(ed2)

Maximum total power rating: 3000VA

Maximum Input voltage : 440V

Maximum Output voltage : 250V

IEC DK-88131-UL

Audio/video, information and communication technology equipment

IEC 62368-1

7000K Series and 7240K series of PCB Mounting transformers 1.6VA to 50VA



Toroidal Transformers for Universal Application

In-rush Current

Due to lack of air gaps, toroidal transformers generally have a higher inrush current than normal transformers. For mains fuses we recommend the use of slow blowing types, especially for output power rates in excess of 500VA.

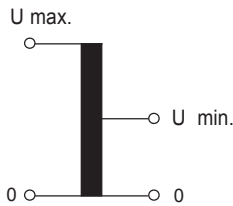
Frequency Range

TALEMA Standard Transformers are designed for operating frequencies between 48 Hz and 60Hz and operate up to 450 Hz maximum. With increasing frequency, the transformer size decreases accordingly. Core materials for frequencies up to 100kHz are available in materials such as thin tape wound nickel alloy, molded powder or sintered ferrite.

Auto-Transformers

An autotransformer allows smaller dimensions and a more economical overall design in cases where galvanically separated windings are not required

Graph 1 (Autotransformers)



$$\text{Transf. power rating} = P_{out} \times \frac{U_{max.} - U_{min.}}{U_{max.}} \text{ [VA]}$$

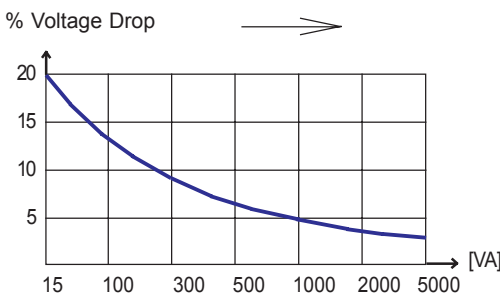
$$P_{out} = \text{Output Power [VA]}$$

$$\text{Optimal Size} = \frac{U_{min.}}{U_{max.}} < 0.5$$

Voltage Drop

The secondary voltages and currents are given for normal output power. At partial load the output voltage, as a function of transformer size, will be accordingly higher. Graph 2 shows the % voltage increase for TALEMA Standard Toroidal Transformers at partial loads.

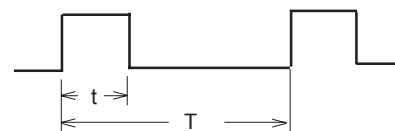
Graph 2 (Voltage Drop)



Duty Cycle

A smaller transformer can be used if the load is intermittent. Because the output power in this case significantly exceeds the nominal power, the secondary voltage drops below the voltages given. The voltage drop increases proportionately with the current being drawn.

Graph 3 (Duty Cycle)

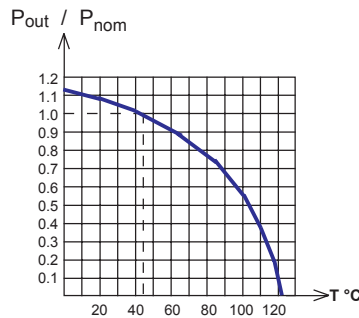


$$P_{nom} \leq P_{load} \sqrt{\frac{t}{T}}$$

Temperature rise

As can be seen from graphs 5 and 6, TALEMA Standard Toroidal Transformers are designed for a temperature rise of 60°C to 70°C at nominal load. When choosing a transformer size, the ambient temperature and heat sink coefficient of the mounting place must be taken into consideration. Graphs 5 & 6 show the typical temperature change which occurs as a function of output power or overload.

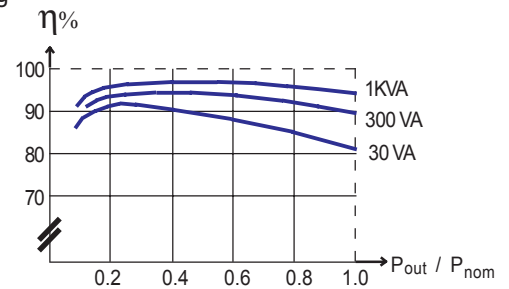
Graph 5 (Ambient Temperature)



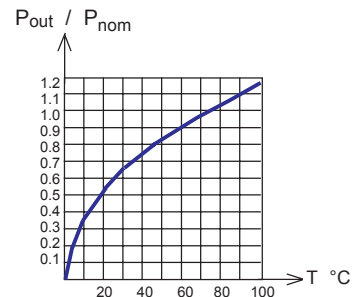
Efficiency

Graph 4 shows typical efficiency which can be expected as a function of the power relationship P_{out} / P_{nom} and transformer size.

Graph 4 (Efficiency)



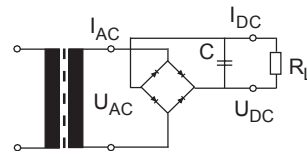
Graph 6 (Temperature Rise)



Rectifying

Graphs 7 and 8 give formulas for calculation of approximate values of the transformers and are primarily dependent on the size of the loading capacitor to be used. The applied form factor "F" is rated between 1.1 for smaller capacitors and up to 2.5 for relatively large

Graph 7 (Rectifying)



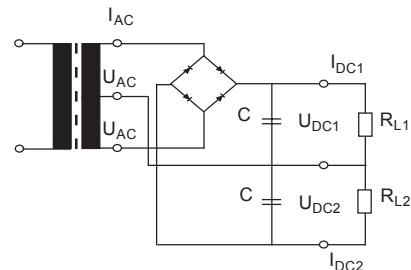
$$U_{AC} \approx \frac{U_{DC}}{\sqrt{2}} + 2 [V_{eff}] \quad \begin{matrix} I [A] \\ t \cdot I [\text{Sec}^{-1}] \\ C [F] \end{matrix}$$

$$I_{AC} \approx F \cdot I_{DC} [A]$$

$$\text{ripple } \Delta U \approx \frac{I \cdot t}{C}$$

$$\begin{matrix} t \text{ Bridge} = 1 / 100 \text{ at } 50 \text{ Hz} \\ t \text{ Bridge} = 1 / 120 \text{ at } 60 \text{ cycles} \end{matrix}$$

Graph 8 (Rectifying)



$$U_{AC} \approx \frac{U_{DC}}{\sqrt{2}} + 1 [V_{eff}]$$

$$I_{AC} \approx \frac{F \sqrt{I_{DC1}^2 + I_{DC2}^2} [A]}{\sqrt{2}}$$

Standard Open & Encapsulated Toroidal Transformers

Features

- Single 230V & Dual 2x115V, 50/60Hz Primary
- Lower Strayfield and high efficiency
- Small size and low weight
- Extremely low level of radiated magnetic field
- Very low induced noise (hum)
- Very low iron loss
- Supplied with mounting kit
- Test Voltage Primary - Secondary 4.5 KV
- 100% electrical and flash tested
- Manufactured in an ISO 9001:2015 and ISO 14001:2015 certified Talema facility
- Fully RoHS & REACH Compliant



| Power VA | Part Number | Secondary | | |
|----------|--------------|-------------|-----------|----------------|
| | Primary 230V | Full Load V | Current A | Open Circuit V |
| 15 | 0015P1-2-006 | 2 x 6 | 1.25 | 2 x 7.0 |
| | 0015P1-2-009 | 2 x 9 | 0.83 | 2 x 10.5 |
| | 0015P1-2-012 | 2 x 12 | 0.63 | 2 x 14.0 |
| | 0015P1-2-015 | 2 x 15 | 0.50 | 2 x 17.4 |
| | 0015P1-2-018 | 2 x 18 | 0.42 | 2 x 21.1 |
| 30 | 0030P1-2-006 | 2 x 6 | 2.50 | 2 x 7.2 |
| | 0030P1-2-009 | 2 x 9 | 1.67 | 2 x 10.6 |
| | 0030P1-2-012 | 2 x 12 | 1.25 | 2 x 14.1 |
| | 0030P1-2-015 | 2 x 15 | 1.00 | 2 x 17.6 |
| | 0030P1-2-018 | 2 x 18 | 0.83 | 2 x 21.2 |
| | 0030P1-2-022 | 2 x 22 | 0.68 | 2 x 26.0 |
| 50 | 0050P1-2-006 | 2 x 6 | 4.17 | 2 x 6.8 |
| | 0050P1-2-009 | 2 x 9 | 2.78 | 2 x 10.2 |
| | 0050P1-2-012 | 2 x 12 | 2.08 | 2 x 13.6 |
| | 0050P1-2-015 | 2 x 15 | 1.67 | 2 x 17.1 |
| | 0050P1-2-018 | 2 x 18 | 1.39 | 2 x 20.4 |
| | 0050P1-2-022 | 2 x 22 | 1.14 | 2 x 24.9 |
| 80 | 0050P1-2-055 | 2 x 55 | 0.45 | 2 x 62.4 |
| | 0080P1-2-010 | 2 x 10 | 4.00 | 2 x 11.5 |
| | 0080P1-2-012 | 2 x 12 | 3.33 | 2 x 13.8 |
| | 0080P1-2-015 | 2 x 15 | 2.67 | 2 x 17.3 |
| | 0080P1-2-018 | 2 x 18 | 2.22 | 2 x 20.7 |
| 120 | 0080P1-2-022 | 2 x 22 | 1.82 | 2 x 25.4 |
| | 0120P1-2-012 | 2 x 12 | 5.00 | 2 x 13.4 |
| | 0120P1-2-015 | 2 x 15 | 4.00 | 2 x 16.8 |
| | 0120P1-2-018 | 2 x 18 | 3.33 | 2 x 20.2 |
| | 0120P1-2-022 | 2 x 22 | 2.73 | 2 x 24.5 |
| | 0120P1-2-055 | 2 x 55 | 1.03 | 2 x 61.3 |

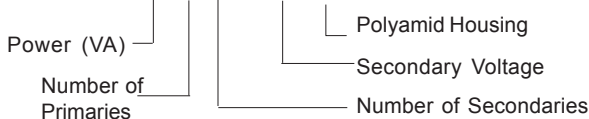
| Power VA | Part Number | Secondary | | |
|----------|--------------|-------------|-----------|----------------|
| | Primary 230V | Full Load V | Current A | Open Circuit V |
| 160 | 0160P1-2-012 | 2 x 12 | 6.67 | 2 x 13.5 |
| | 0160P1-2-015 | 2 x 15 | 5.33 | 2 x 16.6 |
| | 0160P1-2-018 | 2 x 18 | 4.44 | 2 x 20.0 |
| | 0160P1-2-022 | 2 x 22 | 3.64 | 2 x 24.5 |
| | 0160P1-2-030 | 2 x 30 | 2.67 | 2 x 33.5 |
| | 0160P1-2-055 | 2 x 55 | 1.45 | 2 x 61.2 |
| 225 | 0225P1-2-012 | 2 x 12 | 9.38 | 2 x 13.1 |
| | 0225P1-2-015 | 2 x 15 | 7.50 | 2 x 16.5 |
| | 0225P1-2-018 | 2 x 18 | 6.25 | 2 x 19.7 |
| | 0225P1-2-022 | 2 x 22 | 5.11 | 2 x 24.2 |
| | 0225P1-2-024 | 2 x 24 | 4.69 | 2 x 26.5 |
| | 0225P1-2-030 | 2 x 30 | 3.75 | 2 x 32.8 |
| 300 | 0300P1-2-012 | 2 x 12 | 12.5 | 2 x 13.1 |
| | 0300P1-2-018 | 2 x 18 | 8.33 | 2 x 19.4 |
| | 0300P1-2-022 | 2 x 22 | 6.82 | 2 x 23.8 |
| | 0300P1-2-025 | 2 x 25 | 6.00 | 2 x 27.1 |
| | 0300P1-2-030 | 2 x 30 | 5.00 | 2 x 32.5 |
| | 0300P1-2-035 | 2 x 35 | 4.29 | 2 x 37.8 |
| | 0300P1-2-055 | 2 x 55 | 2.73 | 2 x 59.6 |
| 500 | 0500P1-2-020 | 2 x 20 | 12.5 | 2 x 21.5 |
| | 0500P1-2-025 | 2 x 25 | 10.0 | 2 x 26.7 |
| | 0500P1-2-030 | 2 x 30 | 8.33 | 2 x 32.3 |
| | 0500P1-2-040 | 2 x 40 | 6.25 | 2 x 43.0 |
| | 0500P1-2-055 | 2 x 55 | 4.55 | 2 x 59.0 |
| 625 | 0625P1-2-018 | 2 x 18 | 17.4 | 2 x 19.3 |
| | 0625P1-2-022 | 2 x 22 | 14.2 | 2 x 23.5 |
| | 0625P1-2-040 | 2 x 40 | 7.81 | 2 x 42.8 |
| | 0625P1-2-045 | 2 x 45 | 6.94 | 2 x 48.3 |
| | 0625P1-2-050 | 2 x 50 | 6.25 | 2 x 53.8 |
| | 0625P1-2-055 | 2 x 55 | 5.68 | 2 x 58.9 |
| | 0625P1-4-012 | 4 x 12 | 13.00 | 4 x 12.9 |
| 800 | 0800P1-2-040 | 2 x 40 | 10.00 | 2 x 42.4 |
| | 0800P1-2-045 | 2 x 45 | 8.89 | 2 x 47.6 |
| | 0800P1-2-050 | 2 x 50 | 8.00 | 2 x 52.9 |
| | 0800P1-2-055 | 2 x 55 | 7.27 | 2 x 58.1 |
| 1000 | 1000P1-2-018 | 2 x 18 | 27.8 | 2 x 18.8 |
| | 1000P1-2-018 | 2 x 18 | 27.8 | 2 x 18.8 |
| | 1000P1-2-022 | 2 x 22 | 22.7 | 2 x 23.5 |
| | 1000P1-2-040 | 2 x 40 | 12.5 | 2 x 42.2 |
| | 1000P1-2-045 | 2 x 45 | 11.1 | 2 x 47.5 |
| | 1000P1-2-050 | 2 x 50 | 10.0 | 2 x 52.8 |
| | 1000P1-2-055 | 2 x 55 | 9.09 | 2 x 58.1 |
| | 1000P1-4-022 | 4 x 22 | 11.4 | 4 x 23.5 |
| | 1000P1-4-028 | 4 x 28 | 8.93 | 4 x 29.3 |

Note:

Standard Encapsulated versions available from 15VA to 500VA
See following page for dimensions and specifications

Ordering Information

Example: 0030 P1 -2 -012 -K

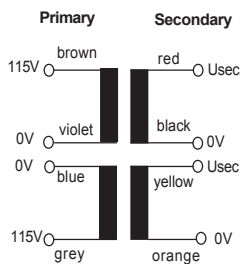


Standard Open & Encapsulated Toroidal Transformers

| Power VA | Part Number | Secondary | | |
|--------------|----------------|--------------|-----------|----------------|
| | Primary 2x115V | Full Load V | Current A | Open Circuit V |
| 15 | 0015P2-2-006 | 2 x 6 | 1.25 | 2 x 7.0 |
| | 0015P2-2-009 | 2 x 9 | 0.83 | 2 x 10.5 |
| | 0015P2-2-012 | 2 x 12 | 0.63 | 2 x 14.0 |
| | 0015P2-2-015 | 2 x 15 | 0.50 | 2 x 17.4 |
| | 0015P2-2-018 | 2 x 18 | 0.42 | 2 x 21.1 |
| | 30 | 0030P2-2-006 | 2 x 6 | 2.50 |
| 0030P2-2-009 | | 2 x 9 | 1.67 | 2 x 10.6 |
| 0030P2-2-012 | | 2 x 12 | 1.25 | 2 x 14.1 |
| 0030P2-2-015 | | 2 x 15 | 1.00 | 2 x 17.6 |
| 0030P2-2-018 | | 2 x 18 | 0.83 | 2 x 21.2 |
| 0030P2-2-022 | | 2 x 22 | 0.68 | 2 x 26.0 |
| 50 | 0050P2-2-006 | 2 x 6 | 4.17 | 2 x 6.8 |
| | 0050P2-2-009 | 2 x 9 | 2.78 | 2 x 10.2 |
| | 0050P2-2-012 | 2 x 12 | 2.08 | 2 x 13.6 |
| | 0050P2-2-015 | 2 x 15 | 1.67 | 2 x 17.1 |
| | 0050P2-2-018 | 2 x 18 | 1.39 | 2 x 20.4 |
| | 0050P1-2-022 | 2 x 22 | 1.14 | 2 x 24.9 |
| | 0050P2-2-055 | 2 x 55 | 0.45 | 2 x 62.4 |
| | 80 | 0080P2-2-010 | 2 x 10 | 4.00 |
| 0080P2-2-012 | | 2 x 12 | 3.33 | 2 x 13.8 |
| 0080P2-2-015 | | 2 x 15 | 2.67 | 2 x 17.3 |
| 0080P2-2-018 | | 2 x 18 | 2.22 | 2 x 20.7 |
| 0080P2-2-022 | | 2 x 22 | 1.82 | 2 x 25.4 |
| 120 | 0120P2-2-012 | 2 x 12 | 5.00 | 2 x 13.4 |
| | 0120P2-2-015 | 2 x 15 | 4.00 | 2 x 16.8 |
| | 0120P2-2-018 | 2 x 18 | 3.33 | 2 x 20.2 |
| | 0120P2-2-022 | 2 x 22 | 2.73 | 2 x 24.5 |
| | 0120P2-2-055 | 2 x 55 | 1.03 | 2 x 61.3 |

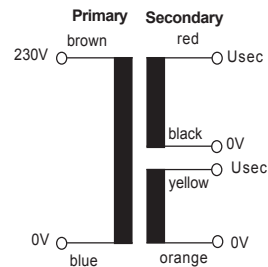
| Power VA | Part Number | Secondary | | |
|----------|----------------|-------------|-----------|----------------|
| | Primary 2x115V | Full Load V | Current A | Open Circuit V |
| 160 | 0160P2-2-012 | 2 x 12 | 6.67 | 2 x 13.5 |
| | 0160P2-2-015 | 2 x 15 | 5.33 | 2 x 16.6 |
| | 0160P2-2-018 | 2 x 18 | 4.44 | 2 x 20.0 |
| | 0160P2-2-022 | 2 x 22 | 3.64 | 2 x 24.5 |
| | 0160P2-2-030 | 2 x 30 | 2.67 | 2 x 33.5 |
| | 0160P2-2-055 | 2 x 55 | 1.45 | 2 x 61.2 |
| 225 | 0225P2-2-012 | 2 x 12 | 9.38 | 2 x 13.1 |
| | 0225P2-2-015 | 2 x 15 | 7.50 | 2 x 16.5 |
| | 0225P2-2-018 | 2 x 18 | 6.25 | 2 x 19.7 |
| | 0225P2-2-022 | 2 x 22 | 5.11 | 2 x 24.2 |
| | 0225P2-2-024 | 2 x 24 | 4.69 | 2 x 26.5 |
| | 0225P2-2-030 | 2 x 30 | 3.75 | 2 x 32.8 |
| 300 | 0300P2-2-012 | 2 x 12 | 12.5 | 2 x 13.1 |
| | 0300P2-2-018 | 2 x 18 | 8.33 | 2 x 19.4 |
| | 0300P2-2-022 | 2 x 22 | 6.82 | 2 x 23.8 |
| | 0300P2-2-025 | 2 x 25 | 6.00 | 2 x 27.1 |
| | 0300P2-2-030 | 2 x 30 | 5.00 | 2 x 32.5 |
| | 0300P2-2-035 | 2 x 35 | 4.29 | 2 x 37.8 |
| | 0300P2-2-055 | 2 x 55 | 2.73 | 2 x 59.6 |
| 500 | 0500P2-2-020 | 2 x 20 | 12.50 | 2 x 21.5 |
| | 0500P2-2-025 | 2 x 25 | 10.00 | 2 x 26.7 |
| | 0500P2-2-030 | 2 x 30 | 8.33 | 2 x 32.3 |
| | 0500P2-2-040 | 2 x 40 | 6.25 | 2 x 43.0 |
| | 0500P2-2-055 | 2 x 55 | 4.55 | 2 x 59.0 |
| 625 | 0625P2-2-018 | 2 x 18 | 17.4 | 2 x 19.3 |
| | 0625P2-2-022 | 2 x 22 | 14.2 | 2 x 23.5 |
| | 0625P2-2-040 | 2 x 40 | 7.81 | 2 x 42.8 |
| | 0625P2-2-045 | 2 x 45 | 6.94 | 2 x 48.3 |
| | 0625P2-2-050 | 2 x 50 | 6.25 | 2 x 53.8 |
| | 0625P2-2-055 | 2 x 55 | 5.68 | 2 x 58.9 |
| 800 | 0625P2-4-012 | 4 x 12 | 13.0 | 4 x 12.9 |
| | 0800P2-2-040 | 2 x 40 | 10.00 | 2 x 42.4 |
| | 0800P2-2-045 | 2 x 45 | 8.89 | 2 x 47.6 |
| | 0800P2-2-050 | 2 x 50 | 8.09 | 2 x 52.9 |
| | 0800P2-2-055 | 2 x 55 | 7.27 | 2 x 58.1 |
| 1000 | 1000P2-2-018 | 2 x 18 | 27.8 | 2 x 18.8 |
| | 1000P2-2-022 | 2 x 22 | 22.7 | 2 x 23.5 |
| | 1000P2-2-040 | 2 x 40 | 12.5 | 2 x 42.2 |
| | 1000P2-2-045 | 2 x 45 | 11.1 | 2 x 47.5 |
| | 1000P2-2-050 | 2 x 50 | 10.0 | 2 x 52.8 |
| | 1000P2-2-055 | 2 x 55 | 9.09 | 2 x 58.1 |
| | 1000P2-4-022 | 4 x 22 | 11.4 | 4 x 23.5 |
| | 1000P2-4-028 | 4 x 28 | 8.93 | 4 x 29.3 |

Schematic



Primary: 2 x 115V / 48 - 60Hz
Secondary: 2 or 4xUsec
for series or parallel connection

Schematic



Primary: 230V / 48 - 60Hz
Secondary: 2 or 4xUsec
for series or parallel connection

Standard Open & Encapsulated Toroidal Transformers



| Nominal Power VA | Primary | | | Core Loss W | Copper Loss Typical | | Dimensions and weight without Mounting Disks | | | Potted in Polyamid Housing | | |
|------------------|---------------------|--------------------|--------------------------------|----------------|---------------------|------------|--|------------|-----------|----------------------------|-----------|---------------------------------|
| | Full Load Current A | No Load Current mA | Copper Resistance T = 20°C Ohm | | T = 20°C W | T =120°C W | Ø mm | Height* mm | Weight kg | Ø mm | Height mm | Center Hole for Mounting Bolt Ø |
| 15 | 0.08 | 2.0 | 178.0 | 0.21 | 1.8 | 2.5 | 60 | 31 | 0.3 | 63 | 34.5 | 5.1 |
| 30 | 0.15 | 2.8 | 92.0 | 0.26 | 3.6 | 5.0 | 70 | 32 | 0.5 | 81 | 39 | 5.1 |
| 50 | 0.25 | 5.0 | 42.0 | 0.43 | 4.7 | 6.6 | 80 | 35 | 0.7 | 87 | 42 | 5.1 |
| 80 | 0.40 | 5.6 | 27.0 | 0.51 | 8.4 | 11.0 | 92 | 36 | 1.0 | 97 | 44 | 6.1 |
| 120 | 0.53 | 8.5 | 15.5 | 0.76 | 9.9 | 13.9 | 92 | 45 | 1.3 | 104 | 52 | 6.1 |
| 160 | 0.79 | 10.0 | 10.5 | 0.97 | 11.9 | 20.8 | 104 | 44 | 1.6 | 115 | 53 | 6.1 |
| 225 | 1.08 | 14.0 | 6.6 | 1.30 | 15.2 | 21.3 | 112 | 48 | 2.1 | 126 | 52 | 6.1 |
| 300 | 1.41 | 17.0 | 4.2 | 1.70 | 16.1 | 22.5 | 115 | 58 | 2.5 | 126 | 65 | 6.1 |
| 500 | 2.32 | 23.0 | 1.83 | 2.50 | 22.1 | 31.0 | 135 | 60 | 3.9 | 147 | 65 | 8.2 |
| 625 | 2.90 | 28.0 | 1.50 | 3.10 | 27.9 | 39.0 | 140 | 70 | 4.6 | -- | -- | -- |
| 800 | 3.71 | 33.1 | 1.30 | 3.65 | 28.9 | 41.2 | 162 | 60 | 5.1 | -- | -- | -- |
| 1000 | 4.56 | 38.0 | 0.88 | 4.80 | 30.7 | 43.0 | 160 | 72 | 6.9 | -- | -- | -- |

* Allow an extra 3mm for mounting kit and 3-4mm to the dimensions where the leads emerge

Material **Temperature Class**

Copper (Pri. & Sec) H (180°C)

Isolation between
Primary & Secondary B (130°C)

Lead isolation A (105°C)

Leads

Primary : Double insulated leads,
 150mm long, 10mm stripped

Secondary : PVC insulated,
 150mm long, 10mm tinned

Approvals:

Approved to EN61558 & IEC 61558

DEKRA Nr. 2161054.01 for Safety Isolation Transformers

DEKRA Nr. 2161054.02 for Isolation Transformers

Marked with the ENEC KEMA-KEUR stamp of approval

Approved to UL 5085-1 (General Purpose Transformers)

File XPTQ2.E215495 - USA

File XPTQ8.E215495 - Canada

Toroidal Transformers with Dual Secondary Winding • 55xxx Series
Features

- High quality manufacturing and testing in accordance to EN61558, EN60065 and Directive 2014/35/EU
- Tested and approved by KEMA to EN61558
- Manufactured in ISO 9001:2016, ISO 14001:2016 & OHSAS 18001:2008 certified Talema facility
- Fully RoHS & REACH Compliant



| Power [VA] | Part Number | Mounting Style | Primary Voltage [V] | Secondary Voltage [V] | Secondary Current [A] | No Load Voltage U ₀ [V] | Fuse (Sec) [A] | Dimensions (ODxHT) mm | Weight Kg |
|---------------|---------------|----------------|---------------------|-----------------------|-----------------------|------------------------------------|----------------|-----------------------|-----------|
| 15 | 55 100 - P1S2 | S | 230 | 2 x 12 | 0.625 | 2 x 13.89 | 0.630 | 62 x 32 | 0.31 |
| | 55 300 - P1S2 | H | | | | | | | |
| | 55 101 - P1S2 | S | 230 | 2 x 15 | 0.500 | 2 x 17.29 | 0.500 | | |
| | 55 301 - P1S2 | H | | | | | | | |
| | 55 102 - P1S2 | S | 230 | 2 x 18 | 0.417 | 2 x 20.91 | 0.400 | | |
| | 55 302 - P1S2 | H | | | | | | | |
| | 55 103 - P1S2 | S | 230 | 2 x 25 | 0.300 | 2 x 29.07 | 0.315 | | |
| 55 303 - P1S2 | H | | | | | | | | |
| 30 | 55 110 - P1S2 | S | 230 | 2 x 12 | 1.250 | 2 x 14.19 | 1.250 | 74 x 34 | 0.44 |
| | 55 310 - P1S2 | H | | | | | | | |
| | 55 111 - P1S2 | S | 230 | 2 x 15 | 1.000 | 2 x 17.74 | 1.000 | | |
| | 55 311 - P1S2 | H | | | | | | | |
| | 55 112 - P1S2 | S | 230 | 2 x 18 | 0.833 | 2 x 21.44 | 0.800 | | |
| | 55 312 - P1S2 | H | | | | | | | |
| | 55 113 - P1S2 | S | 230 | 2 x 25 | 0.600 | 2 x 29.75 | 0.630 | | |
| 55 313 - P1S2 | H | | | | | | | | |
| 50 | 55 120 - P1S2 | S | 230 | 2 x 12 | 2.083 | 2 x 13.71 | 2.000 | 84 x 34 | 0.63 |
| | 55 320 - P1S2 | H | | | | | | | |
| | 55 121 - P1S2 | S | 230 | 2 x 15 | 1.667 | 2 x 17.22 | 1.600 | | |
| | 55 321 - P1S2 | H | | | | | | | |
| | 55 122 - P1S2 | S | 230 | 2 x 18 | 1.389 | 2 x 20.39 | 1.600 | | |
| | 55 322 - P1S2 | H | | | | | | | |
| | 55 123 - P1S2 | S | 230 | 2 x 25 | 1.000 | 2 x 28.78 | 1.000 | | |
| | 55 323 - P1S2 | H | | | | | | | |
| | 55 129 - P1S2 | S | 230 | 2 x 55 | 0.455 | 2 x 63.22 | 0.500 | | |
| 55 329 - P1S2 | H | | | | | | | | |
| 80 | 55 130 - P1S2 | S | 230 | 2 x 12 | 3.333 | 2 x 13.60 | 3.150 | 95 x 36 | 0.87 |
| | 55 330 - P1S2 | H | | | | | | | |
| | 55 131 - P1S2 | S | 230 | 2 x 15 | 2.667 | 2 x 17.11 | 2.500 | | |
| | 55 331 - P1S2 | H | | | | | | | |
| | 55 132 - P1S2 | S | 230 | 2 x 18 | 2.222 | 2 x 20.50 | 2.000 | | |
| | 55 332 - P1S2 | H | | | | | | | |
| | 55 133 - P1S2 | S | 230 | 2 x 25 | 1.600 | 2 x 28.55 | 1.6000 | | |
| | 55 333 - P1S2 | H | | | | | | | |
| | 55 139 - P1S2 | S | 230 | 2 x 55 | 0.727 | 2 x 63.33 | 0.800 | | |
| 55 339 - P1S2 | H | | | | | | | | |
| 120 | 55 140 - P1S2 | S | 230 | 2 x 12 | 5.000 | 2 x 13.42 | 5.000 | 96 x 47 | 1.20 |
| | 55 340 - P1S2 | H | | | | | | | |
| | 55 141 - P1S2 | S | 230 | 2 x 15 | 4.000 | 2 x 16.82 | 4.000 | | |
| | 55 341 - P1S2 | H | | | | | | | |
| | 55 142 - P1S2 | S | 230 | 2 x 18 | 3.333 | 2 x 20.04 | 3.150 | | |
| | 55 342 - P1S2 | H | | | | | | | |
| | 55 143 - P1S2 | S | 230 | 2 x 25 | 2.400 | 2 x 28.02 | 2.500 | | |
| | 55 343 - P1S2 | H | | | | | | | |
| | 55 149 - P1S2 | S | 230 | 2 x 55 | 1.091 | 2 x 61.83 | 1.000 | | |
| 55 349 - P1S2 | H | | | | | | | | |

Toroidal Transformers with Dual Secondary Winding • 55xxx Series

| Power [VA] | Part Number | Mounting Style | Primary Voltage [V] | Secondary Voltage [V] | Secondary Current [A] | No Load Voltage Uo [V] | Fuse (Sec) [A] | Dimensions (ODxHT) mm | Weight Kg |
|---------------|---------------|----------------|---------------------|-----------------------|-----------------------|------------------------|----------------|-----------------------|-----------|
| 160 | 55 150 - P1S2 | S | 230 | 2 x 12 | 6.667 | 2 x 13.26 | 6.300 | 110 x 46 | 1.50 |
| | 55 350 - P1S2 | H | | | | | | | |
| | 55 151 - P1S2 | S | 230 | 2 x 15 | 5.333 | 2 x 16.63 | 5.000 | | |
| | 55 351 - P1S2 | H | | | | | | | |
| | 55 152 - P1S2 | S | 230 | 2 x 18 | 4.444 | 2 x 19.79 | 5.000 | | |
| | 55 352 - P1S2 | H | | | | | | | |
| | 55 153- P1S2 | S | 230 | 2 x 25 | 3.200 | 2 x 27.31 | 3.150 | | |
| | 55 353 - P1S2 | H | | | | | | | |
| | 55 154 - P1S2 | S | 230 | 2 x 30 | 2.667 | 2 x 32.86 | 2.500 | | |
| | 55 354 - P1S2 | H | | | | | | | |
| 55 159 - P1S2 | S | 230 | 2 x 55 | 1.455 | 2 x 60.17 | 1.600 | | | |
| 55 359 - P1S2 | H | | | | | | | | |
| 225 | 55 160 - P1S2 | S | 230 | 2 x 12 | 9.375 | 2 x 13.14 | 10.000 | 118 x 50 | 1.90 |
| | 55 360 - P1S2 | H | | | | | | | |
| | 55 161 - P1S2 | S | 230 | 2 x 15 | 7.500 | 2 x 16.32 | 8.000 | | |
| | 55 361 - P1S2 | H | | | | | | | |
| | 55 162 - P1S2 | S | 230 | 2 x 18 | 6.250 | 2 x 19.71 | 6.300 | | |
| | 55 362 - P1S2 | H | | | | | | | |
| | 55 163 - P1S2 | S | 230 | 2 x 25 | 4.500 | 2 x 27.42 | 5.000 | | |
| | 55 363 - P1S2 | H | | | | | | | |
| | 55 164 - P1S2 | S | 230 | 2 x 30 | 3.750 | 2 x 32.86 | 4.000 | | |
| | 55 364 - P1S2 | H | | | | | | | |
| 55 169 - P1S2 | S | 230 | 2 x 55 | 2.045 | 2 x 59.82 | 2.000 | | | |
| 55 369 - P1S2 | H | | | | | | | | |
| 300 | 55 173 - P1S2 | S | 230 | 2 x 25 | 6.000 | 2 x 26.85 | 6.300 | 118 x 60 | 2.40 |
| | 55 373 - P1S2 | H | | | | | | | |
| | 55 174 - P1S2 | S | 230 | 2 x 30 | 5.000 | 2 x 32.52 | 5.000 | | |
| | 55 374 - P1S2 | H | | | | | | | |
| | 55 175 - P1S2 | S | 230 | 2 x 35 | 4.286 | 2 x 37.88 | 4.000 | | |
| | 55 375 - P1S2 | H | | | | | | | |
| | 55 179 - P1S2 | S | 230 | 2 x 55 | 2.727 | 2 x 59.66 | 2.500 | | |
| 55 379 - P1S2 | H | | | | | | | | |
| 500 | 55 183 - P1S2 | S | 230 | 2 x 25 | 10.000 | 2 x 26.71 | 10.000 | 140 x 62 | 3.50 |
| | 55 383 - P1S2 | H | | | | | | | |
| | 55 184 - P1S2 | S | 230 | 2 x 30 | 8.333 | 2 x 32.27 | 8.000 | | |
| | 55 384 - P1S2 | H | | | | | | | |
| | 55 185 - P1S2 | S | 230 | 2 x 35 | 7.143 | 2 x 37.47 | 8.000 | | |
| | 55 385 - P1S2 | H | | | | | | | |
| | 55 186 - P1S2 | S | 230 | 2 x 40 | 6.250 | 2 x 43.03 | 6.300 | | |
| | 55 386 - P1S2 | H | | | | | | | |
| | 55 187 - P1S2 | S | 230 | 2 x 45 | 5.556 | 2 x 48.59 | 5.000 | | |
| | 55 387 - P1S2 | H | | | | | | | |
| | 55 188 - P1S2 | S | 230 | 2 x 50 | 5.000 | 2 x 53.42 | 5.000 | | |
| | 55 388 - P1S2 | H | | | | | | | |
| | 55 189 - P1S2 | S | 230 | 2 x 55 | 4.545 | 2 x 58.61 | 5.000 | | |
| 55 389 - P1S2 | H | | | | | | | | |
| 625 | 55 196 - P1S2 | S | 230 | 2 x 40 | 7.813 | 2 x 42.32 | 8.000 | 140 x 75 | 4.40 |
| | 55 396 - P1S2 | H | | | | | | | |
| | 55 197 - P1S2 | S | 230 | 2 x 45 | 6.944 | 2 x 47.38 | 8.000 | | |
| | 55 397 - P1S2 | H | | | | | | | |
| | 55 198 - P1S2 | S | 230 | 2 x 50 | 6.250 | 2 x 52.44 | 6.300 | | |
| | 55 398 - P1S2 | H | | | | | | | |
| | 55 199 - P1S2 | S | 230 | 2 x 55 | 5.682 | 2 x 57.96 | 6.300 | | |
| 55 399 - P1S2 | H | | | | | | | | |
| 800 | 55 206 - P1S2 | S | 230 | 2 x 40 | 10.000 | 2 x 42.38 | 10.000 | 165 x 65 | 5.30 |
| | 55 406 - P1S2 | H | | | | | | | |
| | 55 207 - P1S2 | S | 230 | 2 x 45 | 8.889 | 2 x 47.62 | 8.000 | | |
| | 55 407 - P1S2 | H | | | | | | | |
| | 55 208 - P1S2 | S | 230 | 2 x 50 | 8.000 | 2 x 52.86 | 8.000 | | |
| | 55 408 - P1S2 | H | | | | | | | |
| | 55 209 - P1S2 | S | 230 | 2 x 55 | 7.273 | 2 x 58.10 | 8.000 | | |
| 55 409 - P1S2 | H | | | | | | | | |
| 1000 | 55 216 - P1S2 | S | 230 | 2 x 40 | 12.500 | 2 x 41.76 | 12.500 | 165 x 75 | 6.40 |
| | 55 416 - P1S2 | H | | | | | | | |
| | 55 217 - P1S2 | S | 230 | 2 x 45 | 11.111 | 2 x 47.06 | 10.000 | | |
| | 55 417 - P1S2 | H | | | | | | | |
| | 55 218 - P1S2 | S | 230 | 2 x 50 | 10.000 | 2 x 52.35 | 10.000 | | |
| | 55 418 - P1S2 | H | | | | | | | |
| | 55 219 - P1S2 | S | 230 | 2 x 55 | 9.091 | 2 x 57.65 | 10.000 | | |
| 55 419 - P1S2 | H | | | | | | | | |

Standard Mounting

“S” – Standard mounting; “H” – centre potted with through hole

Toroidal Transformers (12V Halogen Lamps) • 56xxx Series
Features

- High quality manufacturing and testing in accordance to EN61558, EN60065 and Directive 2014/35/EU
- Tested and approved by KEMA to EN61558
- Manufactured in ISO 9001:2016, ISO 14001:2016 & OHSAS 18001:2008 certified Talema facility
- Fully RoHS & REACH Compliant


12V Halogen Lamps

| Power [VA] | Part Number | Primary Voltage [V] | Secondary Voltage [V] | Secondary Current [A] | No Load Voltage U _o [V] | Fuse (Sec) [A] | Dimensions (ODxHT) mm | Weight Kg |
|------------|---------------|---------------------|-----------------------|-----------------------|------------------------------------|----------------|-----------------------|-----------|
| 15 | 56 021 - P1S1 | 230 | 11.8 | 1.27 | 13.7 | 1.25 | 62 x 32 | 0.31 |
| 30 | 56 022 - P1S1 | 230 | 11.8 | 2.54 | 13.8 | 2.50 | 74 x 34 | 0.44 |
| 50 | 56 001 - P1S1 | 230 | 11.8 | 4.24 | 13.5 | 5.00 | 84 x 34 | 0.63 |
| 80 | 56 002 - P1S1 | 230 | 11.8 | 6.78 | 13.5 | 8.00 | 95 x 36 | 0.87 |
| 120 | 56 003 - P1S1 | 230 | 11.8 | 10.17 | 13.1 | 12.50 | 96 x 47 | 1.20 |
| 160 | 56 004 - P1S1 | 230 | 11.8 | 13.56 | 12.9 | 16.00 | 110 x 46 | 1.50 |
| 200 | 56 005 - P1S1 | 230 | 11.8 | 16.95 | 12.7 | 20.00 | 116 x 48 | 1.90 |
| 250 | 56 006 - P1S1 | 230 | 11.8 | 21.19 | 12.8 | 25.00 | 118 x 55 | 2.20 |
| 300 | 56 007 - P1S1 | 230 | 11.8 | 25.42 | 12.6 | 25.00 | 118 x 60 | 2.40 |
| 400 | 56 008 - P1S1 | 230 | 11.8 | 33.90 | 12.6 | 35.00 | 140 x 55 | 3.10 |
| 500 | 56 009 - P1S1 | 230 | 11.8 | 42.37 | 12.6 | 50.00 | 140 x 62 | 3.50 |

12V Halogen Lamps with Auto-Reset Thermal Switch

| Power [VA] | Part Number | Primary Voltage [V] | Secondary Voltage [V] | Secondary Current [A] | No Load Voltage U _o [V] | Fuse (Sec) [°C] | Dimensions (ODxHT) mm | Weight Kg |
|------------|---------------|---------------------|-----------------------|-----------------------|------------------------------------|-----------------|-----------------------|-----------|
| 15 | 56 031 - P1S1 | 230 | 11.8 | 1.27 | 13.7 | 110 | 62 x 32 | 0.31 |
| 30 | 56 032 - P1S1 | 230 | 11.8 | 2.54 | 13.8 | 110 | 74 x 34 | 0.44 |
| 50 | 56 011 - P1S1 | 230 | 11.8 | 4.24 | 13.5 | 110 | 84 x 34 | 0.63 |
| 80 | 56 012 - P1S1 | 230 | 11.8 | 6.78 | 13.5 | 110 | 95 x 36 | 0.87 |
| 120 | 56 013 - P1S1 | 230 | 11.8 | 10.17 | 13.1 | 110 | 96 x 47 | 1.20 |
| 160 | 56 014 - P1S1 | 230 | 11.8 | 13.56 | 12.9 | 110 | 110 x 46 | 1.50 |
| 200 | 56 015 - P1S1 | 230 | 11.8 | 16.95 | 12.7 | 110 | 116 x 48 | 1.90 |
| 250 | 56 016 - P1S1 | 230 | 11.8 | 21.19 | 12.8 | 110 | 118 x 55 | 2.20 |
| 300 | 56 017 - P1S1 | 230 | 11.8 | 25.42 | 12.6 | 110 | 118 x 60 | 2.40 |

Toroidal Power Transformers • 58xxx Series
Features

- 200mm (approx.) flying leads
- Small size and low weight compared with traditional lamination types
- Low radiated magnetic field
- Low induced noise (hum)
- High quality manufacturing and testing in accordance to EN61558-1, EN60065 and Directive 2014/35/EU
- Manufactured in ISO 9001:2016, ISO 14001:2016 & OHSAS 18001:2008 certified Talema facility
- Fully RoHS & REACH Compliant



“x” in the part denotes mounting Styles (S, B, H or D)

| Power [VA] | Part Number | Mounting Style | Primary Voltage [V] | Secondary Voltage [V] | Secondary Current [A] | No Load Voltage [V] | Fuse (Sec) [A] | Dimensions (ODxHT) mm | Weight Kg |
|------------|---------------|----------------|---------------------|-----------------------|-----------------------|---------------------|----------------|-----------------------|-----------|
| 12 | 58-0012-012-x | S B H D | 230 | 12 | 1.000 | 13.96 | 1.00 | 57 x 29 | 0.26 |
| | 58-0012-018-x | S B H D | 230 | 18 | 0.667 | 20.83 | 0.63 | | |
| | 58-0012-024-x | S B H D | 230 | 24 | 0.500 | 27.92 | 0.50 | | |
| | 58-0012-030-x | S B H D | 230 | 30 | 0.400 | 34.94 | 0.40 | | |
| 20 | 58-0020-012-x | S B H D | 230 | 12 | 1.667 | 13.96 | 1.60 | 57 x 35 | 0.35 |
| | 58-0020-018-x | S B H D | 230 | 18 | 1.111 | 20.85 | 1.25 | | |
| | 58-0020-024-x | S B H D | 230 | 24 | 0.833 | 27.64 | 1.00 | | |
| | 58-0020-030-x | S B H D | 230 | 30 | 0.667 | 34.53 | 0.63 | | |
| 32 | 58-0032-012-x | S B H D | 230 | 12 | 2.667 | 13.96 | 2.50 | 70 x 36 | 0.48 |
| | 58-0032-018-x | S B H D | 230 | 18 | 1.778 | 20.85 | 2.00 | | |
| | 58-0032-024-x | S B H D | 230 | 24 | 1.333 | 27.64 | 1.60 | | |
| | 58-0032-030-x | S B H D | 230 | 30 | 1.067 | 34.62 | 1.00 | | |
| 50 | 58-0050-012-x | S B H D | 230 | 12 | 4.167 | 13.70 | 4.00 | 80 x 33 | 0.63 |
| | 58-0050-018-x | S B H D | 230 | 18 | 2.778 | 20.60 | 3.15 | | |
| | 58-0050-024-x | S B H D | 230 | 24 | 2.083 | 27.28 | 2.00 | | |
| | 58-0050-030-x | S B H D | 230 | 30 | 1.667 | 34.18 | 1.60 | | |
| | 58-0050-048-x | S B H D | 230 | 48 | 1.042 | 54.67 | 1.00 | | |
| | 58-0050-060-x | S B H D | 230 | 60 | 0.833 | 68.14 | 0.80 | | |
| | 58-0050-115-x | S B H D | 230 | 115 | 0.435 | 129.94 | 0.50 | | |
| 80 | 58-0080-012-x | S B H D | 230 | 12 | 6.667 | 13.38 | 6.30 | 80 x 44 | 0.89 |
| | 58-0080-018-x | S B H D | 230 | 18 | 4.444 | 20.16 | 5.00 | | |
| | 58-0080-024-x | S B H D | 230 | 24 | 3.333 | 26.76 | 3.15 | | |
| | 58-0080-030-x | S B H D | 230 | 30 | 2.667 | 33.37 | 2.50 | | |
| | 58-0080-048-x | S B H D | 230 | 48 | 1.667 | 53.35 | 1.60 | | |
| | 58-0080-060-x | S B H D | 230 | 60 | 1.333 | 66.73 | 1.25 | | |
| 100 | 58-0100-012-x | S B H D | 230 | 12 | 8.333 | 13.56 | 8.00 | 93 x 42 | 1.10 |
| | 58-0100-018-x | S B H D | 230 | 18 | 5.556 | 20.48 | 6.30 | | |
| | 58-0100-024-x | S B H D | 230 | 24 | 4.167 | 27.27 | 4.00 | | |
| | 58-0100-030-x | S B H D | 230 | 30 | 3.333 | 34.05 | 3.15 | | |
| | 58-0100-048-x | S B H D | 230 | 48 | 2.083 | 54.39 | 2.00 | | |
| | 58-0100-060-x | S B H D | 230 | 60 | 1.667 | 67.96 | 1.60 | | |
| | 58-0100-115-x | S B H D | 230 | 115 | 0.870 | 128.85 | 1.00 | | |
| | 58-0100-230-x | S B H D | 230 | 230 | 0.435 | 257.97 | 0.50 | | |

Toroidal Power Transformers • 58xxx Series

| Power [VA] | Part Number | Mounting Style | | | | Primary Voltage [V] | Secondary Voltage [V] | Secondary Current [A] | No Load Voltage [V] | Fuse (Sec) [A] | Dimensions (ODxHT) mm | Weight Kg |
|---------------|---------------|----------------|---|---|-----|---------------------|-----------------------|-----------------------|---------------------|----------------|-----------------------|-----------|
| 125 | 58-0125-012-x | S | B | H | D | 230 | 12 | 10.417 | 13.40 | 10.00 | 94 x 46 | 1.20 |
| | 58-0125-018-x | S | B | H | D | 230 | 18 | 6.944 | 20.02 | 8.00 | | |
| | 58-0125-024-x | S | B | H | D | 230 | 24 | 5.210 | 26.80 | 5.00 | | |
| | 58-0125-030-x | S | B | H | D | 230 | 30 | 4.167 | 33.58 | 4.00 | | |
| | 58-0125-048-x | S | B | H | D | 230 | 48 | 2.604 | 53.60 | 2.50 | | |
| 58-0125-060-x | S | B | H | D | 230 | 60 | 2.083 | 67.00 | 2.00 | | | |
| 160 | 58-0160-012-x | S | B | H | D | 230 | 12 | 13.333 | 13.18 | 12.50 | 99 x 51 | 1.50 |
| | 58-0160-018-x | S | B | H | D | 230 | 18 | 8.889 | 19.87 | 10.00 | | |
| | 58-0160-024-x | S | B | H | D | 230 | 24 | 6.667 | 26.35 | 6.30 | | |
| | 58-0160-030-x | S | B | H | D | 230 | 30 | 5.333 | 33.05 | 5.00 | | |
| | 58-0160-048-x | S | B | H | D | 230 | 48 | 3.333 | 52.70 | 3.15 | | |
| | 58-0160-060-x | S | B | H | D | 230 | 60 | 2.667 | 65.87 | 2.50 | | |
| | 58-0160-115-x | S | B | H | D | 230 | 115 | 1.391 | 125.27 | 1.60 | | |
| 58-0160-230-x | S | B | H | D | 230 | 230 | 0.696 | 250.10 | 0.80 | | | |
| 200 | 58-0200-012-x | S | B | H | D | 230 | 12 | 16.667 | 13.05 | 16.00 | 115 x 49 | 1.90 |
| | 58-0200-018-x | S | B | H | D | 230 | 18 | 11.111 | 19.58 | 12.50 | | |
| | 58-0200-024-x | S | B | H | D | 230 | 24 | 8.333 | 26.11 | 8.00 | | |
| | 58-0200-030-x | S | B | H | D | 230 | 30 | 6.667 | 32.63 | 6.30 | | |
| | 58-0200-048-x | S | B | H | D | 230 | 48 | 4.167 | 52.44 | 4.00 | | |
| | 58-0200-060-x | S | B | H | D | 230 | 60 | 3.333 | 65.04 | 3.15 | | |
| | 58-0200-115-x | S | B | H | D | 230 | 115 | 1.739 | 124.23 | 2.00 | | |
| 58-0200-230-x | S | B | H | D | 230 | 230 | 0.870 | 246.65 | 1.00 | | | |
| 250 | 58-0250-012-x | S | B | H | D | 230 | 12 | 20.833 | 13.00 | 20.00 | 117 x 54 | 2.20 |
| | 58-0250-018-x | S | B | H | D | 230 | 18 | 13.889 | 19.63 | 16.00 | | |
| | 58-0250-024-x | S | B | H | D | 230 | 24 | 10.417 | 26.01 | 10.00 | | |
| | 58-0250-030-x | S | B | H | D | 230 | 30 | 8.333 | 32.38 | 8.00 | | |
| | 58-0250-048-x | S | B | H | D | 230 | 48 | 5.208 | 52.02 | 5.00 | | |
| 58-0250-060-x | S | B | H | D | 230 | 60 | 4.167 | 64.77 | 4.00 | | | |
| 300 | 58-0300-012-x | S | B | H | D | 230 | 12 | 25.000 | 13.04 | 25.00 | 117 x 61 | 2.50 |
| | 58-0300-018-x | S | B | H | D | 230 | 18 | 16.667 | 19.56 | 16.00 | | |
| | 58-0300-024-x | S | B | H | D | 230 | 24 | 12.500 | 26.08 | 12.50 | | |
| | 58-0300-030-x | S | B | H | D | 230 | 30 | 10.000 | 32.31 | 10.00 | | |
| | 58-0300-048-x | S | B | H | D | 230 | 48 | 6.250 | 51.87 | 6.30 | | |
| | 58-0300-060-x | S | B | H | D | 230 | 60 | 5.000 | 64.32 | 5.00 | | |
| | 58-0300-115-x | S | B | H | D | 230 | 115 | 2.609 | 122.71 | 3.15 | | |
| 58-0300-230-x | S | B | H | D | 230 | 230 | 1.300 | 246.70 | 1.00 | | | |
| 400 | 58-0400-012-x | S | B | H | - | 230 | 12 | 33.333 | 12.64 | 35.00 | 137 x 54 | 3.20 |
| | 58-0400-024-x | S | B | H | - | 230 | 24 | 16.667 | 25.59 | 16.00 | | |
| | 58-0400-030-x | S | B | H | - | 230 | 30 | 13.333 | 31.91 | 12.50 | | |
| | 58-0400-048-x | S | B | H | - | 230 | 48 | 8.333 | 51.18 | 8.00 | | |
| | 58-0400-060-x | S | B | H | - | 230 | 60 | 6.667 | 64.14 | 6.30 | | |
| | 58-0400-230-x | S | B | H | - | 230 | 230 | 1.739 | 242.64 | 2.00 | | |
| 500 | 58-0500-012-x | S | B | H | - | 230 | 12 | 41.667 | 12.61 | 50.00 | 140 x 64 | 3.90 |
| | 58-0500-024-x | S | B | H | - | 230 | 24 | 20.800 | 25.23 | 25.00 | | |
| | 58-0500-030-x | S | B | H | - | 230 | 30 | 16.667 | 31.90 | 16.00 | | |
| | 58-0500-048-x | S | B | H | - | 230 | 48 | 10.417 | 50.82 | 10.00 | | |
| | 58-0500-060-x | S | B | H | - | 230 | 60 | 8.333 | 63.44 | 8.00 | | |
| 58-0500-230-x | S | B | H | - | 230 | 230 | 2.170 | 241.87 | 2.50 | | | |
| 630 | 58-0630-012-x | S | B | H | - | 230 | 12 | 52.200 | 12.28 | 63.00 | 164 x 58 | 4.90 |
| | 58-0630-048-x | S | B | H | - | 230 | 48 | 13.125 | 50.34 | 12.50 | | |
| | 58-0630-060-x | S | B | H | - | 230 | 60 | 10.500 | 63.03 | 10.00 | | |
| 800 | 58-0800-024-x | S | B | H | - | 230 | 24 | 33.300 | 25.08 | 35.00 | 166 x 67 | 6.00 |
| | 58-0800-048-x | S | B | H | - | 230 | 48 | 16.667 | 50.17 | 16.00 | | |
| | 58-0800-060-x | S | B | H | - | 230 | 60 | 13.333 | 62.94 | 12.50 | | |

Standard Mounting

- "S" - Supplied with standard mounting kit consisting of one dished washer and two neoprene pads
- "B" - Centre potted from below with threaded insert for subsequent mounting
- "H" - Centre potted with through hole for subsequent mounting
- "D" - With DIN rail mounting bracket

Toroidal Lighting Power Transformers

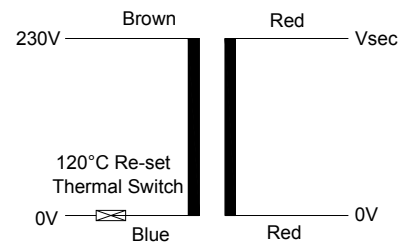
High quality open style toroidal transformers with a single 230VAC 50/60Hz primary winding. Single 11.8V secondary winding, suitable for 12V Halogen lamps

Features

- Primary incorporates an auto-reset thermal switch, rated at 120°C +/-5°C
- Output voltage 11.8V +/- 1.5% (at nominal input and full load)
- Small size and low weight compared with traditional stacked lamination types.
- Extremely low level of radiated magnetic field
- Very low induced noise (hum)
- Very low iron loss
- Double insulated primary leads
- UL Recognised to UL506, under family approval file E215495
- Meets all requirements of Class E (120°C)
- High quality manufacturing and testing in accordance to EN61558, EN60742, EN60950, EN60065, VDE0551, VDE0550 and BS415
- Tested and Approved by KEMA to EN61558
- Secondary voltage tolerance 1% at nominal input.
- Maximum ambient operating temperature +40°C
- Neoprene pads: 5KV isolation
- Manufactured in an ISO 9001:2015 and ISO 14001:2015 certified Talema facility
- Fully RoHS & REACH Compliant



Schematic



| Rated VA | Part Number | Regulation % Typical | Temperature Rise [K] | Dimensions* Diameter [mm] | Height [mm] | Weight [Kg] |
|----------|-------------|----------------------|----------------------|---------------------------|-------------|-------------|
| 50 | 91931-P1S1 | 15 | 46 | 80 | 33 | 0.65 |
| 105 | 91932-P1S1 | 11 | 49 | 93 | 46 | 1.05 |
| 150 | 91933-P1S1 | 8.5 | 48 | 105 | 42 | 1.35 |
| 200 | 91934-P1S1 | 7.6 | 51 | 105 | 50 | 1.75 |

Notes:

- Each transformer is supplied with a dished washer and protection pads for single hole fixing.
- *Allow extra 4mm for mounting kit, allow extra 5mm where leads emerge
- Leads: PVC insulated 150mm long

Special Transformers • Standard Configuration & Customer Specification
Special Transformers

If we do not have a customer or stock standard which meets your requirements, we can offer expert engineering assistance to develop the special transformer you need. We stock the materials for the sizes shown on table 2 (page 6) and can supply other sizes as well on short notice.


Capabilities

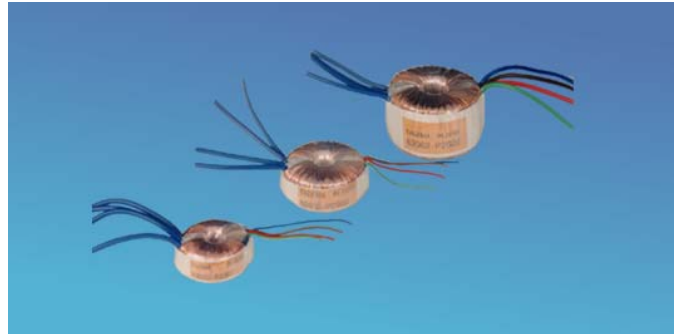
- Power 5VA - 7500VA / phase
- Assembled 3 phase sets
- Special sizes - extremely flat or small Diameter
- Static copper shielding
- Magnetic shielding
- Operating frequencies to 20kHz
- Potting in special housings tp 1200VA
- Secondary voltages to 1000 V
- Up to 8 primaries or taps
- Up to 30 secondaries or taps
- Reinforced dielectric to 5000V_{eff}

| Power VA | Core Loss W | Copper Loss (typical) | | Dimensions mm | | Weight kg |
|-------------|----------------|--------------------------|-------------------|---------------|--------|--------------|
| | | T = 20°C W | T = 120°C W | O.D. Ø | Height | |
| 5 | 0.16 | 0.6 | 0.8 | 51 | 27 | 0.1 |
| 10 | 0.14 | 1.1 | 1.6 | 58 | 29 | 0.3 |
| 15 | 0.21 | 1.8 | 2.5 | 60 | 31 | 0.3 |
| 20 | 0.26 | 2.4 | 3.3 | 60 | 36 | 0.4 |
| 30 | 0.26 | 3.6 | 5.0 | 70 | 32 | 0.5 |
| 50 | 0.39 | 4.7 | 6.6 | 70 | 44 | 0.7 |
| 50 | 0.43 | 4.7 | 6.6 | 80 | 35 | 0.7 |
| 80 | 0.65 | 8.4 | 11.8 | 80 | 45 | 1.0 |
| 80 | 0.51 | 8.4 | 11.8 | 92 | 36 | 1.0 |
| 120 | 0.76 | 9.9 | 13.9 | 92 | 45 | 1.3 |
| 160 | 1.00 | 14.9 | 20.8 | 92 | 58 | 1.5 |
| 160 | 0.97 | 14.9 | 20.8 | 104 | 44 | 1.6 |
| 225 | 1.30 | 15.2 | 21.3 | 112 | 48 | 2.1 |
| 250 | 1.30 | 15.7 | 22.0 | 95 | 69 | 2.3 |
| 250 | 1.20 | 15.7 | 22.0 | 135 | 38 | 2.3 |
| 300 | 1.70 | 16.1 | 22.5 | 115 | 58 | 2.5 |
| 375 | 2.10 | 20.0 | 28.0 | 115 | 68 | 3.0 |
| 375 | 1.90 | 20.0 | 28.0 | 135 | 48 | 3.0 |
| 500 | 2.50 | 22.1 | 31.0 | 135 | 60 | 3.9 |
| 625 | 3.10 | 27.9 | 39.0 | 140 | 70 | 4.6 |
| 625 | 2.90 | 27.9 | 42.0 | 160 | 48 | 4.6 |
| 800 | 3.80 | 30.0 | 42.0 | 160 | 60 | 5.5 |
| 1000 | 4.80 | 30.7 | 43.0 | 160 | 72 | 6.9 |
| 1000 | 4.40 | 30.7 | 43.0 | 200 | 48 | 6.9 |
| 1300 | 5.70 | 42.9 | 60.0 | 160 | 82 | 8.8 |
| 1300 | 5.90 | 44.3 | 62.0 | 200 | 65 | 8.8 |
| 1600 | 7.30 | 45.0 | 63.0 | 200 | 75 | 10.5 |
| 1900 | 8.80 | 47.1 | 66.0 | 200 | 85 | 12.0 |
| 2200 | 10.30 | 55.3 | 76.0 | 205 | 90 | 13.5 |
| 2500 | 11.70 | 59.3 | 83.0 | 205 | 105 | 16.6 |
| 2500 | 13.30 | 59.3 | 83.0 | 245 | 80 | 15.2 |
| 2800 | 13.30 | 68.0 | 95.0 | 245 | 80 | 16.0 |
| 3200 | 15.60 | 70.0 | 97.0 | 245 | 90 | 18.6 |
| 3700 | 17.80 | 73.0 | 102.0 | 245 | 100 | 21.2 |
| 4400 | 16.80 | 84.0 | 116.0 | 275 | 95 | 24.5 |
| 5000 | 22.40 | 87.0 | 120.0 | 275 | 105 | 28.0 |
| 6000 | 25.20 | 97.0 | 135.0 | 290 | 120 | 31.0 |
| 7500 | 28.60 | 110.0 | 153.0 | 320 | 100 | 39.0 |

Standard Miniature Toroidal Transformers

Features

- Tapped 0-115-230V, 50/60Hz Primary windings suitable for 115V or 230V
- Lower strayfield
- High efficiency
- Reduced standby current
- Small size & low weight
- Extremely low level of radiated magnetic field
- Very low induced noise (hum)
- Very low iron loss
- Test Voltage Primary - Secondary 4.0 KV
- 100% electrical and flash tested
- Ambient operating temp.: +60°C Max.
- Insulation system recognized for Class A (105°C) meets all requirements of Class E (120°C)
- Manufactured in an ISO 9001:2015 and ISO 14001:2015 certified Talema facility
- Fully RoHS & REACH Compliant



Standards

- High quality manufacturing and testing in accordance to EN61558, EN60950, EN60065 and BS415
- Tested and Approved by DEKRA to EN61558
- Recognized to UL5085, under family approval file E215495



| Power VA | Part Number 2 x 115V Primary | Part Number 0 - 115 - 230V Primary | Part Number 0 - 230V Primary | Secondary Full Load Voltage V | Secondary Current mA | Open Circuit Voltage V |
|-------------|---------------------------------|--|------------------------------------|-------------------------------------|----------------------------|------------------------------|
| 1.6 | 62000 | 60000 | 61000 | 2 x 7 | 114 | 2 x 8.9 |
| | 62001 | 60001 | 61001 | 2 x 9 | 89 | 2 x 11.6 |
| | 62002 | 60002 | 61002 | 2 x 12 | 67 | 2 x 15.4 |
| | 62003 | 60003 | 61003 | 2 x 15 | 53 | 2 x 19.3 |
| | 62004 | 60004 | 61004 | 2 x 18 | 44 | 2 x 23.4 |
| | 62005 | 60005 | 61005 | 2 x 22 | 36 | 2 x 28.2 |
| 3.2 | 62010 | 60010 | 61010 | 2 x 7 | 229 | 2 x 10.2 |
| | 62011 | 60011 | 61011 | 2 x 9 | 178 | 2 x 13.0 |
| | 62012 | 60012 | 61012 | 2 x 12 | 133 | 2 x 17.3 |
| | 62013 | 60013 | 61013 | 2 x 15 | 107 | 2 x 21.4 |
| | 62014 | 60014 | 61014 | 2 x 18 | 89 | 2 x 25.7 |
| | 62015 | 60015 | 61015 | 2 x 22 | 73 | 2 x 30.5 |
| 5.0 | 62020 | 60020 | 61020 | 2 x 7 | 357 | 2 x 9.7 |
| | 62021 | 60021 | 61021 | 2 x 9 | 278 | 2 x 12.4 |
| | 62022 | 60022 | 61022 | 2 x 12 | 208 | 2 x 17.0 |
| | 62023 | 60023 | 61023 | 2 x 15 | 167 | 2 x 21.3 |
| | 62024 | 60024 | 61024 | 2 x 18 | 139 | 2 x 25.5 |
| | 62025 | 60025 | 61025 | 2 x 22 | 114 | 2 x 30.5 |
| 7.0 | 62030 | 60030 | 61030 | 2 x 7 | 500 | 2 x 9.5 |
| | 62031 | 60031 | 61031 | 2 x 9 | 389 | 2 x 12.2 |
| | 62032 | 60032 | 61032 | 2 x 12 | 292 | 2 x 16.2 |
| | 62033 | 60033 | 61033 | 2 x 15 | 233 | 2 x 20.3 |
| | 62034 | 60034 | 61034 | 2 x 18 | 194 | 2 x 24.3 |
| | 62035 | 60035 | 61035 | 2 x 22 | 159 | 2 x 29.7 |

Standard Miniature Toroidal Transformer

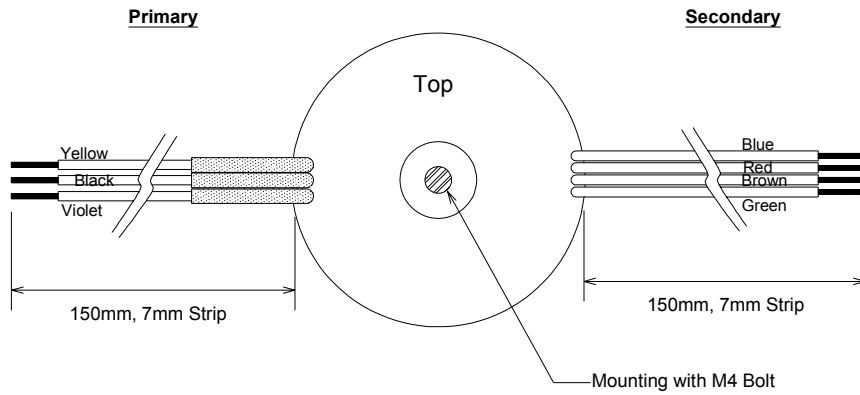
| Power VA | Part Number 2 x 115V Primary | Part Number 0 - 115 - 230V Primary | Part Number 0 - 230V Primary | Secondary Full Load Voltage V | Secondary Current mA | Open Circuit Voltage V |
|----------|---------------------------------|--|---------------------------------|--|----------------------------|------------------------------|
| 10 | 62040 | 60040 | 61040 | 2 x 7 | 714 | 2x8.3 |
| | 62041 | 60041 | 61041 | 2 x 9 | 556 | 2x10.8 |
| | 62042 | 60042 | 61042 | 2 x 12 | 417 | 2x14.4 |
| | 62043 | 60043 | 61043 | 2 x 15 | 333 | 2x18.0 |
| | 62044 | 60044 | 61044 | 2 x 18 | 278 | 2x21.7 |
| | 62045 | 60045 | 61045 | 2 x 22 | 227 | 2x26.3 |
| 15 | 62050 | 60050 | 61050 | 2 x 7 | 1071 | 2 x 8.9 |
| | 62051 | 60051 | 61051 | 2 x 9 | 833 | 2 x 11.1 |
| | 62052 | 60052 | 61052 | 2 x 12 | 625 | 2 x 14.8 |
| | 62053 | 60053 | 61053 | 2 x 15 | 500 | 2 x 18.5 |
| | 62054 | 60054 | 61054 | 2 x 18 | 417 | 2 x 22.2 |
| | 62055 | 60055 | 61055 | 2 x 22 | 341 | 2 x 27.2 |
| 25 | 62060 | 60060 | 61060 | 2 x 7 | 1785 | 2 x 8.3 |
| | 62061 | 60061 | 61061 | 2 x 9 | 1377 | 2 x 10.7 |
| | 62062 | 60062 | 61062 | 2 x 12 | 1041 | 2 x 14.2 |
| | 62063 | 60063 | 61063 | 2 x 15 | 832 | 2 x 17.8 |
| | 62064 | 60064 | 61064 | 2 x 18 | 694 | 2 x 21.4 |
| | 62065 | 60065 | 61065 | 2 x 22 | 568 | 2 x 26.2 |
| 35 | 62070 | 60070 | 61070 | 2 x 7 | 2500 | 2 x 8.2 |
| | 62071 | 60071 | 61071 | 2 x 9 | 1944 | 2 x 10.6 |
| | 62072 | 60072 | 61072 | 2 x 12 | 1458 | 2 x 14.0 |
| | 62073 | 60073 | 61073 | 2 x 15 | 1166 | 2 x 17.6 |
| | 62074 | 60074 | 61074 | 2 x 18 | 972 | 2 x 20.9 |
| | 62075 | 60075 | 61075 | 2 x 22 | 795 | 2 x 25.7 |
| 50 | 62080 | 60080 | 61080 | 2 x 7 | 3571 | 2 x 8.1 |
| | 62081 | 60081 | 61081 | 2 x 9 | 2777 | 2 x 10.4 |
| | 62082 | 60082 | 61082 | 2 x 12 | 2083 | 2 x 13.8 |
| | 62083 | 60083 | 61083 | 2 x 15 | 1666 | 2 x 17.3 |
| | 62084 | 60084 | 61084 | 2 x 18 | 1388 | 2 x 20.7 |
| | 62085 | 60085 | 61085 | 2 x 22 | 1136 | 2 x 25.4 |

Standard Output (Electrical measurements @ 20°C ambient temperature)

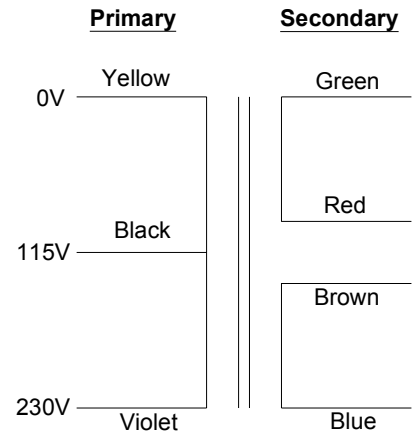
| Power VA | Dimensions OD x ID x H mm | Weight grams | No Load Regulation ^V/Sec. (%) | ^t °C | Efficiency % | No Load mA (typ.) | 230V Fuse mA | Secondary Power (Max.) | | | | |
|----------|---------------------------------|-----------------|--------------------------------------|----------|-----------------|----------------------|--------------------|------------------------|----------------|----------|-----------------|-----------------|
| | | | | | | | | VA | ^V / sec. % | ^t °C | Efficiency % | Rec. Fuse mA |
| 1.6 | 37.5x7.0x17.0 | 71 | 29 | 10 | 77 | 1.0 | 32 | 2.0 | 60 | 30 | 60 | 32 |
| 3.2 | 42.0x7.0x17.5 | 89 | 41 | 20 | 70 | 1.5 | 32 | 3.7 | 80 | 40 | 50 | 50 |
| 5.0 | 47.0x6.0x18.0 | 115 | 45 | 29 | 70 | 2.0 | 50 | 5.5 | 80 | 40 | 50 | 63 |
| 7.0 | 47.0x6.8x21.5 | 145 | 34 | 25 | 74 | 3.0 | 63 | 7.5 | 70 | 40 | 60 | 80 |
| 10 | 53.5x6.8x23.5 | 216 | 20 | 24 | 82 | 3.0 | 80 | 12.0 | 60 | 45 | 60 | 100 |
| 15 | 57.5x7.0x24.0 | 262 | 23 | 27 | 81 | 4.0 | 100 | 16.0 | 60 | 40 | 65 | 125 |
| 25 | 58.0x13.8x34.5 | 388 | 19.0 | 28 | 84 | 5.0 | 160 | -- | -- | -- | -- | -- |
| 35 | 72.0x17.0x33.5 | 453 | 17.7 | 31 | 85 | 7.0 | 200 | -- | -- | -- | -- | -- |
| 50 | 78.0x22.5x35.0 | 670 | 15.5 | 30 | 86 | 8.0 | 315 | -- | -- | -- | -- | -- |

Standard Miniature Toroidal Transformer

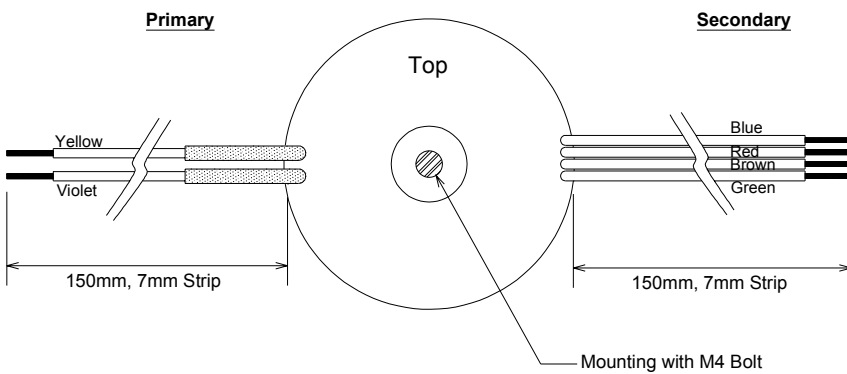
Mechanical Drawing - 600xx Series (0-115V-230V Primary)



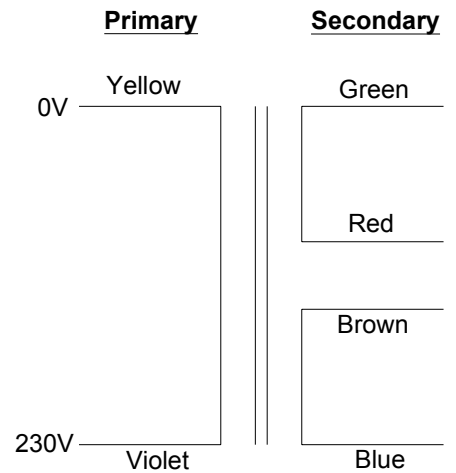
Schematic



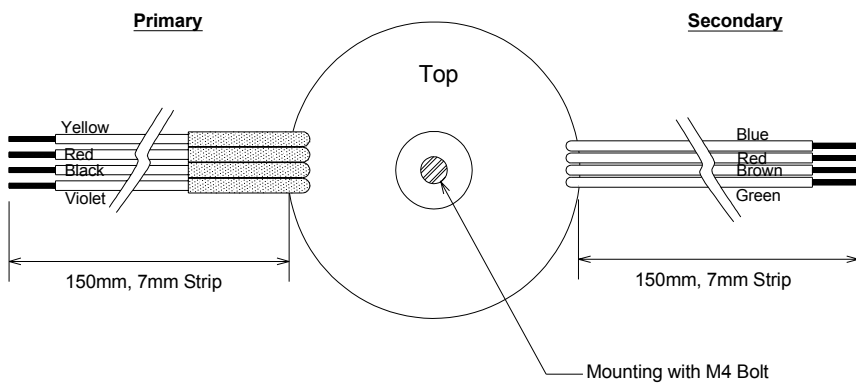
Mechanical Drawing - 61xxx Series (0-230V Primary)



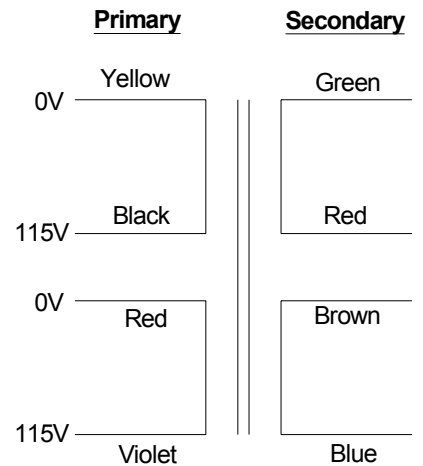
Schematic



Mechanical Drawing - 620xx Series (2x115V Primary)



Schematic



Medical Grade Isolation Transformers

Medical grade isolation transformers are high quality open style toroidal transformers with dual 0-100-120V primary windings suitable for 100/120/200/220/240V, 50/60Hz operation and 2x0-120V isolated secondary windings which may be connected in series or parallel, or used as two independent 120V supplies.



Features

- Power Rating 50VA to 3000VA
- Dual Primary and Dual Secondary windings
- Frequency 50-60Hz
- Isolation 5KVrms Primary - Secondary
- Creepage Distance minimum 8.0mm
- Leakage Current < 100µA
- Tolerance ±3% on Load
- Various mounting methods available
- Recognized to UL60601-1 (Agency Reference - XORU2.E251176 & XORU8.E251176)
- Inbuilt Thermal Protection
- Magnetic Shield to minimize Strayfield Emission (**Optional**)
- Class B Insulation System
- Safety requirement confirms to IEC 601-1 Class I & Class II equipment
- Manufactured in an ISO 9001:2015 and ISO 14001:2015 certified Talema facility
- Fully RoHS & REACH Compliant

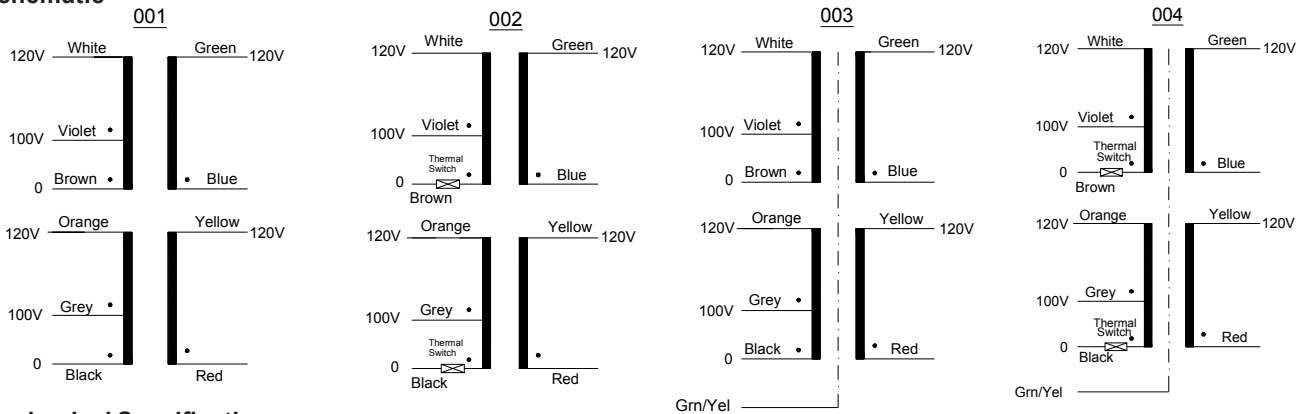


Ratings Table

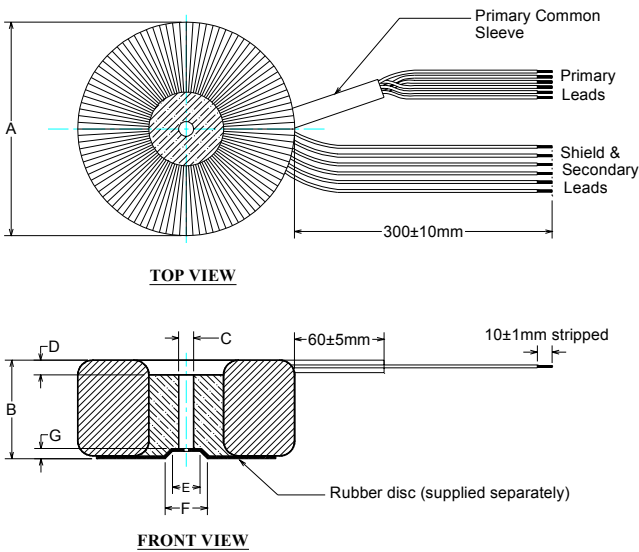
| Part No. | Power | Secondary Ratings | | No Load Voltage | Lead Wire Gauge | | |
|--------------|-------|-------------------|---------|-----------------|-----------------|-----------|---------|
| | | 120VAC | 240VAC | | Primary | Secondary | Shield |
| | VA | A (rms) | A (rms) | V | UL1015 | | |
| 0050MD-X-00Y | 50 | 0.42 | 0.21 | 2x135.5 | AWG #22 | AWG #22 | AWG #22 |
| 0100MD-X-00Y | 100 | 0.83 | 0.42 | 2x131.9 | AWG #22 | AWG #22 | AWG #22 |
| 0200MD-X-00Y | 200 | 1.67 | 0.83 | 2x129.1 | AWG #22 | AWG #22 | AWG #22 |
| 0230MD-X-00Y | 230 | 1.92 | 0.96 | 2x128.8 | AWG #22 | AWG #22 | AWG #22 |
| 0300MD-X-00Y | 300 | 2.50 | 1.25 | 2x127.5 | AWG #22 | AWG #22 | AWG #22 |
| 0350MD-X-00Y | 350 | 2.92 | 1.46 | 2x126.7 | AWG #20 | AWG #20 | AWG #20 |
| 0400MD-X-00Y | 400 | 3.33 | 1.67 | 2x126.4 | AWG #20 | AWG #20 | AWG #20 |
| 0500MD-X-00Y | 500 | 4.17 | 2.08 | 2x125.6 | AWG #18 | AWG #20 | AWG #18 |
| 0600MD-X-00Y | 600 | 5.00 | 2.50 | 2x125.4 | AWG #18 | AWG #20 | AWG #18 |
| 0650MD-X-00Y | 650 | 5.42 | 2.71 | 2x125.2 | AWG #18 | AWG #18 | AWG #18 |
| 0760MD-X-00Y | 760 | 6.33 | 3.17 | 2x124.8 | AWG #16 | AWG #18 | AWG #18 |
| 0800MD-X-00Y | 800 | 6.67 | 3.33 | 2x124.4 | AWG #16 | AWG #18 | AWG #18 |
| 1000MD-X-00Y | 1000 | 8.33 | 4.17 | 2x124.6 | AWG #16 | AWG #16 | AWG #18 |
| 1200MD-X-00Y | 1200 | 10.00 | 5.00 | 2x123.5 | AWG #16 | AWG #16 | AWG #18 |
| 1500MD-X-00Y | 1500 | 12.50 | 6.25 | 2x123.4 | AWG #14 | AWG #16 | AWG #18 |
| 1800MD-X-00Y | 1800 | 15.00 | 7.50 | 2x123.7 | AWG #14 | AWG #14 | AWG #18 |
| 2000MD-X-00Y | 2000 | 16.67 | 8.33 | 2x122.8 | AWG #12 | AWG #12 | AWG #18 |
| 2500MD-X-00Y | 2500 | 20.83 | 10.42 | 2x123.3 | AWG #12 | AWG #12 | AWG #18 |
| 3000MD-X-00Y | 3000 | 25.00 | 12.50 | 2x121.9 | AWG #12 | AWG #12 | AWG #18 |

Medical Grade Isolation Transformers

Schematic



Mechanical Specification

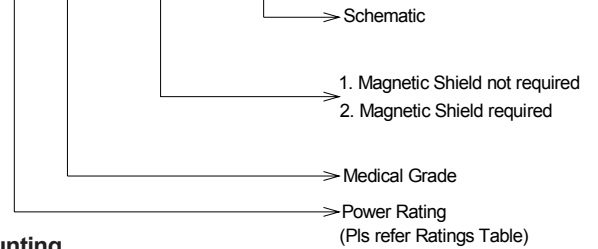


Schematic - Details

| Schematic | Construction | Functional Earth | Thermal Protection |
|-----------|-----------------------|------------------|-------------------------|
| 001 | Reinforced Insulation | No | No |
| 002 | Reinforced Insulation | No | Yes (Internal, in-line) |
| 003 | Reinforced Insulation | Yes | No |
| 004 | Reinforced Insulation | Yes | Yes (Internal, in-line) |

Ordering Code

0600 MD - 1 - 001



Mounting

- Center-Potted through hole
- Metal Disc and Insulating pads (Optional)

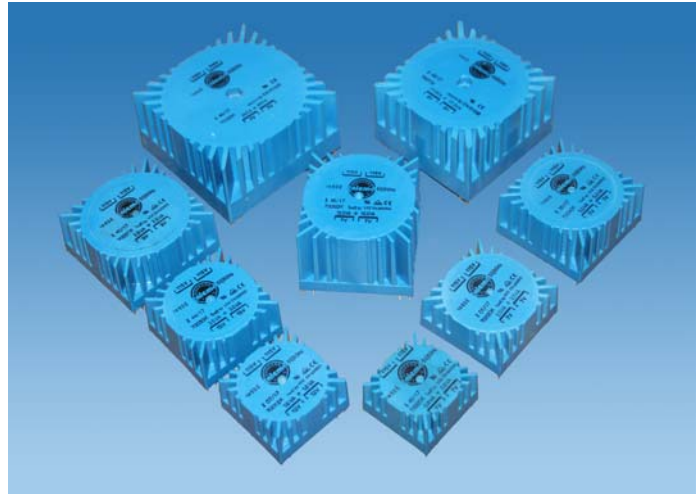
Dimensions

| Part No. | Physical Dimensions ** | | | | | | | Weight ** |
|--------------|------------------------|-----|------|----------|----|----|----|-----------|
| | A | B | C | D (±3.0) | E | F | G | |
| | mm | mm | mm | mm | mm | mm | mm | Kg |
| 0050MD-X-00Y | 81 | 38 | 6.35 | 10 | 16 | 26 | 4 | 0.8 |
| 0100MD-X-00Y | 99 | 41 | 6.35 | 10 | 16 | 26 | 4 | 1.1 |
| 0200MD-X-00Y | 117 | 56 | 6.35 | 10 | 19 | 35 | 5 | 2.3 |
| 0230MD-X-00Y | 117 | 61 | 6.35 | 10 | 19 | 35 | 5 | 2.4 |
| 0300MD-X-00Y | 127 | 62 | 10 | 10 | 22 | 44 | 8 | 2.8 |
| 0350MD-X-00Y | 132 | 58 | 10 | 19 | 22 | 44 | 8 | 3.0 |
| 0400MD-X-00Y | 132 | 64 | 10 | 19 | 22 | 44 | 8 | 3.4 |
| 0500MD-X-00Y | 134 | 70 | 10 | 19 | 22 | 44 | 8 | 4.3 |
| 0600MD-X-00Y | 150 | 70 | 10 | 19 | 22 | 44 | 8 | 4.7 |
| 0650MD-X-00Y | 157 | 70 | 10 | 19 | 22 | 44 | 8 | 5.1 |
| 0760MD-X-00Y | 160 | 71 | 10 | 19 | 22 | 44 | 8 | 5.9 |
| 0800MD-X-00Y | 165 | 72 | 10 | 19 | 22 | 44 | 8 | 6.1 |
| 1000MD-X-00Y | 168 | 80 | 12.7 | 19 | 22 | 44 | 8 | 8.2 |
| 1200MD-X-00Y | 183 | 81 | 12.7 | 25 | 32 | 44 | 12 | 10.0 |
| 1500MD-X-00Y | 200 | 90 | 12.7 | 25 | 32 | 44 | 12 | 11.8 |
| 1800MD-X-00Y | 206 | 94 | 12.7 | 25 | 32 | 44 | 12 | 13.6 |
| 2000MD-X-00Y | 215 | 105 | 12.7 | 25 | 32 | 44 | 12 | 15.5 |
| 2500MD-X-00Y | 240 | 115 | 15 | 32 | 42 | 53 | 16 | 21.0 |
| 3000MD-X-00Y | 265 | 120 | 15 | 32 | 42 | 53 | 16 | 26.0 |

** Physical Dimensions & Weight given are approximate

Toroidal PC Transformers • 1.6VA - 50VA
Features

- Dual 115V or 120V, 50/60 Hz Primaries for parallel or series connections
- Lower strayfield
- High efficiency
- Reduced standby current
- Small size and low weight
- Extremely low level of radiated magnetic field
- Very low induced noise (hum)
- Very low iron loss
- Test Voltage Primary - Secondary 4.0 KV
- Ease of mounting - M4 Centre bush
- Ambient operating temp.: +60°C Max. for 1.6VA-25VA; +40°C Max. for 35VA-50VA
- Insulation system recognized for Class A (105°C) meets all requirements of Class E (120°C)
- Manufactured in an ISO 9001:2015 and ISO 14001:2015 certified Talema facility
- Fully RoHS & REACH Compliant


Standards

- High quality manufacturing and testing
- Recognized to UL5085 (70000K to 70065K)
- Recognized to EN60950 by VDE (70000K to 70065K)
- Recognized to UL62368-1 & IEC62368-1 (700xxK & 724xxK)

| Power VA | Part Number | | Secondary | | |
|-------------|-------------|----------|-------------|------------|----------------|
| | 2 x 115V | 2 x 120V | Full Load V | Current mA | Open Circuit V |
| 1.6 | 70000K | 72400K | 2 x 7 | 114 | 2 x 8.9 |
| | 70001K | 72401K | 2 x 9 | 89 | 2 x 11.6 |
| | 70002K | 72402K | 2 x 12 | 67 | 2 x 15.4 |
| | 70003K | 72403K | 2 x 15 | 53 | 2 x 19.3 |
| | 70004K | 72404K | 2 x 18 | 44 | 2 x 23.4 |
| | 70005K | 72405K | 2 x 22 | 36 | 2 x 28.2 |
| | 3.2 | 70010K | 72410K | 2 x 7 | 229 |
| 70011K | | 72411K | 2 x 9 | 178 | 2 x 13.0 |
| 70012K | | 72412K | 2 x 12 | 133 | 2 x 17.3 |
| 70013K | | 72413K | 2 x 15 | 107 | 2 x 21.4 |
| 70014K | | 72414K | 2 x 18 | 89 | 2 x 25.7 |
| 70015K | | 72415K | 2 x 22 | 73 | 2 x 31.3 |
| 5.0 | | 70020K | 72420K | 2 x 7 | 357 |
| | 70021K | 72421K | 2 x 9 | 278 | 2 x 12.4 |
| | 70022K | 72422K | 2 x 12 | 208 | 2 x 17.0 |
| | 70023K | 72423K | 2 x 15 | 167 | 2 x 21.3 |
| | 70024K | 72424K | 2 x 18 | 139 | 2 x 25.5 |
| | 70025K | 72425K | 2 x 22 | 114 | 2 x 30.5 |
| | 7.0 | 70030K | 72430K | 2 x 7 | 500 |
| 70031K | | 72431K | 2 x 9 | 389 | 2 x 12.2 |
| 70032K | | 72432K | 2 x 12 | 292 | 2 x 16.2 |
| 70033K | | 72433K | 2 x 15 | 233 | 2 x 20.3 |
| 70034K | | 72434K | 2 x 18 | 194 | 2 x 24.3 |
| 70035K | | 72435K | 2 x 22 | 159 | 2 x 29.7 |
| 10 | | 70040K | 72440K | 2 x 7 | 714 |
| | 70041K | 72441K | 2 x 9 | 556 | 2 x 10.8 |
| | 70042K | 72442K | 2 x 12 | 417 | 2 x 14.4 |
| | 70043K | 72443K | 2 x 15 | 333 | 2 x 18.0 |
| | 70044K | 72444K | 2 x 18 | 278 | 2 x 21.7 |
| | 70045K | 72445K | 2 x 22 | 227 | 2 x 26.3 |

| Power VA | Part Number | | Secondary | | |
|-------------|-------------|----------|-------------|------------|----------------|
| | 2 x 115V | 2 x 120V | Full Load V | Current mA | Open Circuit V |
| 15 | 70050K | 72450K | 2 x 7 | 1071 | 2 x 8.9 |
| | 70051K | 72451K | 2 x 9 | 833 | 2 x 11.1 |
| | 70052K | 72452K | 2 x 12 | 625 | 2 x 14.8 |
| | 70053K | 72453K | 2 x 15 | 500 | 2 x 18.5 |
| | 70054K | 72454K | 2 x 18 | 417 | 2 x 22.2 |
| | 70055K | 72455K | 2 x 22 | 341 | 2 x 27.2 |
| | 25 | 70060K | 72460K | 2 x 7 | 1785 |
| 70061K | | 72461K | 2 x 9 | 1377 | 2 x 10.7 |
| 70062K | | 72462K | 2 x 12 | 1041 | 2 x 14.3 |
| 70063K | | 72463K | 2 x 15 | 832 | 2 x 17.8 |
| 70064K | | 72464K | 2 x 18 | 694 | 2 x 21.4 |
| 70065K | | 72465K | 2 x 22 | 568 | 2 x 26.2 |
| 35 | | 70070K | 72470K | 2 x 7 | 2500 |
| | 70071K | 72471K | 2 x 9 | 1944 | 2 x 10.6 |
| | 70072K | 72472K | 2 x 12 | 1458 | 2 x 14.0 |
| | 70073K | 72473K | 2 x 15 | 1166 | 2 x 17.6 |
| | 70074K | 72474K | 2 x 18 | 972 | 2 x 20.9 |
| | 70075K | 72475K | 2 x 22 | 795 | 2 x 25.7 |
| | 50 | 70080K | 72480K | 2 x 7 | 3571 |
| 70081K | | 72481K | 2 x 9 | 2777 | 2 x 10.4 |
| 70082K | | 72482K | 2 x 12 | 2083 | 2 x 13.9 |
| 70083K | | 72483K | 2 x 15 | 1666 | 2 x 17.3 |
| 70084K | | 72484K | 2 x 18 | 1388 | 2 x 20.8 |
| 70085K | | 72485K | 2 x 22 | 1136 | 2 x 25.4 |

Notes:

Primaries and secondaries for parallel or series connection
Dimensions and schematic in next Page

Toroidal PC Transformers • 1.6VA - 50VA

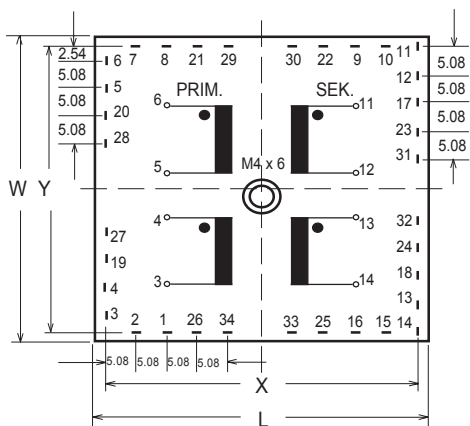
Standard Outputs (Electrical measurements @ 20°C ambient temperature)

| Power VA | Weight Cu gram | No Load Regulation Delta Volts/Sec. (%) | Delta Temp °C | Efficiency % | No Load mA (typ.) | 230V Fuse mA | Secondary Range (Max.) | | | | |
|----------|----------------|---|---------------|--------------|-------------------|--------------|------------------------|--------------------|---------------|--------------|--------------|
| | | | | | | | VA | Delta Volts/sec. % | Delta Temp °C | Efficiency % | Rec. Fuse mA |
| 1.6 | 82 | 29 | 10 | 77 | 1.0 | 32 | 2.0 | 60 | 30 | 60 | 32 |
| 3.2 | 110 | 43 | 20 | 70 | 1.5 | 32 | 3.7 | 80 | 40 | 50 | 50 |
| 5.0 | 144 | 40 | 29 | 68 | 2.0 | 50 | 5.5 | 80 | 40 | 50 | 63 |
| 7.0 | 174 | 34 | 25 | 74 | 3.0 | 63 | 7.5 | 70 | 40 | 60 | 80 |
| 10 | 252 | 20 | 24 | 82 | 3.0 | 80 | 12.0 | 60 | 45 | 60 | 100 |
| 15 | 304 | 23 | 27 | 80 | 4.0 | 100 | 16.0 | 60 | 40 | 65 | 125 |
| 25 | 435 | 19.0 | 28 | 83 | 5.0 | 160 | -- | -- | -- | -- | -- |
| 35 | 525 | 17.7 | 31 | 81 | 7.0 | 200 | -- | -- | -- | -- | -- |
| 50 | 685 | 15.5 | 30 | 86 | 8.0 | 315 | -- | -- | -- | -- | -- |

Dimensions

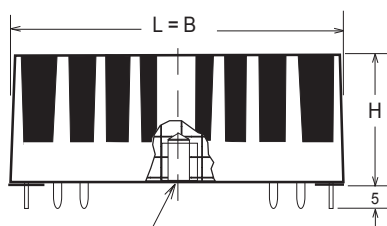
| Dimensions - 7XXXX Series | | | | | |
|---------------------------|-------------------------|------------|-------------|-------------|------------------|
| Power VA | Dimensions L x W x H mm | Pin Layout | | Weight gram | Pin Availability |
| | | XY mm | Pin Size mm | | |
| 1.6 | 39.6x39.6x18.5 | 35.56 | 1.0x0.5 | 82 | 1 - 16 |
| 3.2 | 44.7x44.7x19.5 | 40.64 | 1.0x0.5 | 110 | 1 - 18 |
| 5.0 | 49.7x49.7x19.5 | 45.72 | 1.0x0.5 | 144 | 1 - 18 |
| 7.0 | 49.7x49.7x23.1 | 45.72 | 1.0x0.5 | 174 | 1 - 18 |
| 10 | 55.0x55.0x26.0 | 50.80 | 1.0x0.5 | 252 | 1 - 18 |
| 15 | 60.0x60.0x26.3 | 55.88 | 1.0x0.5 | 304 | 1 - 20 |
| 25 | 60.0x60.0x37.5 | 55.88 | 1.0x0.5 | 435 | 1 - 20 |
| 35 | 72.0x72.0x37.5 | 66.04 | Ø 1.3 | 525 | 1 - 26 |
| 50 | 82.4x82.4x37.5 | 76.20 | Ø 1.3 | 685 | 1 - 34 |

Pin Side View



Specifications subject to change, Custom models available on request

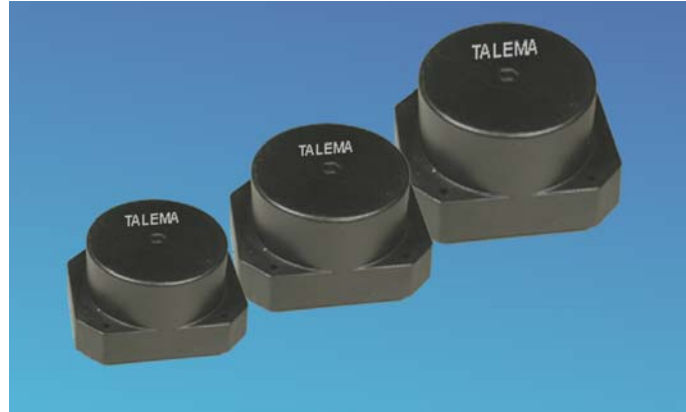
- For 230 volt operation, connect primaries in series by connecting pins 5 & 4 together and apply 230 volts across pins 6 & 3
- For 115 volt operation, connect primaries in parallel by connecting pins 6 & 4 together and pins 5 & 3 together, apply 115 volts across pins 6 & 5
- To parallel the secondaries, connect pins 14 to 12 and 13 to 11 take the output across pins 14 & 13
- To place the secondaries in series, connect pins 13 to 12 and take the output across pins 14 & 11



Blind insert M4 x 6 deep 1.6VA - 25VA
M5 Through hole 35VA - 50VA

Toroidal PC Transformers • 35VA - 160VA
Features

- Dual 115V or 230V, 50/60Hz Primary
- Lower strayfield
- High efficiency
- Reduced standby current
- Small size and low weight
- Extremely low level of radiated magnetic field
- Very low induced noise (hum)
- Very low iron loss
- Test Voltage Primary - Secondary 4.0 KV
- 100% electrical and flash tested
- Ambient operating temp.: +40°C Max.
- Insulation system recognized for Class A (105°C) meets all requirements of Class E (120°C)
- Manufactured in an ISO 9001:2015 and ISO 14001:2015 certified Talema facility
- Fully RoHS & REACH Compliant


Standards

- High quality manufacturing and testing in accordance to EN61558, EN60065, EN60950, UL5085 & BS415

Standard Outputs (Electrical measurements @ 20°C ambient temperature)

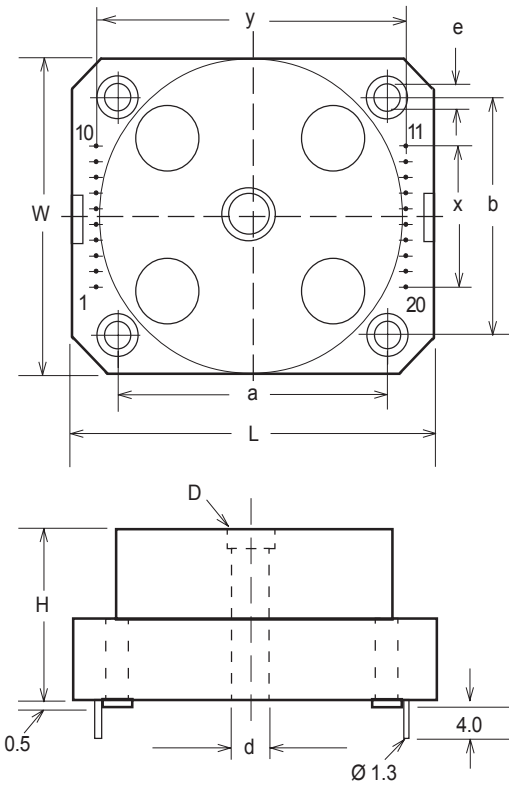
| Power VA | Part Number | | Secondary Full Load V | Efficiency % | Regulation Delta Volts/sec @ 20°C | Schematic Primary - Secondary |
|----------|-------------|-------|-----------------------|--------------|-----------------------------------|-------------------------------|
| | 115V | 230V | | | | |
| 35 | 6400K | 6500K | 2 x 7 | 83 | 18.6 | |
| | 6401K | 6501K | 2 x 9 | | | |
| | 6402K | 6502K | 2 x 12 | | | |
| | 6403K | 6503K | 2 x 15 | | | |
| | 6404K | 6504K | 2 x 18 | | | |
| | 6505K | 6505K | 2 x 24 | | | |
| | 6506K | 6506K | 2 x 30 | | | |
| 50 | 6410K | 6510K | 2 x 7 | 85 | 15.2 | |
| | 6411K | 6511K | 2 x 9 | | | |
| | 6412K | 6512K | 2 x 12 | | | |
| | 6413K | 6513K | 2 x 15 | | | |
| | 6414K | 6514K | 2 x 18 | | | |
| | 6415K | 6515K | 2 x 24 | | | |
| | 6416K | 6516K | 2 x 30 | | | |
| 90 | 6420K | 6520K | 2 X 7 | 89 | 11.5 | |
| | 6421K | 6521K | 2 X 9 | | | |
| | 6422K | 6522K | 2 X 12 | | | |
| | 6423K | 6523K | 2 X 15 | | | |
| | 6424K | 6524K | 2 X 18 | | | |
| | 6425K | 6525K | 2 X 24 | | | |
| | 6426K | 6526K | 2 X 30 | | | |

Note: 160VA only - Secondary pin connection for 2 x 7V will be 15+16, 18+19 and 24+25, 27+28

Toroidal PC Transformers • 35VA - 160VA

| Power VA | Part Number | | Secondary Full Load V | Efficiency % | Regulation Delta Volts/sec @ 20°C | Schematic Primary - Secondary |
|----------|-------------|-------|-----------------------|--------------|-----------------------------------|-------------------------------|
| | 115V | 230V | | | | |
| 110 | 6430K | 6530K | 2 X 7 | 87 | 10.1 | |
| | 6431K | 6531K | 2 X 9 | | | |
| | 6432K | 6532K | 2 X 12 | | | |
| | 6433K | 6533K | 2 X 15 | | | |
| | 6434K | 6534K | 2 X 18 | | | |
| | 6435K | 6535K | 2 X 24 | | | |
| | 6436K | 6536K | 2 X 30 | | | |
| 160 | 6440K | 6540K | 2 X 7 | 90 | 9.5 | |
| | 6441K | 6541K | 2 X 9 | | | |
| | 6442K | 6542K | 2 X 12 | | | |
| | 6443K | 6543K | 2 X 15 | | | |
| | 6444K | 6544K | 2 X 18 | | | |
| | 6445K | 6545K | 2 X 24 | | | |
| | 6446K | 6546K | 2 X 30 | | | |

Pin Side



Options

- Dual primaries & multiple secondaries with different voltage ratings
- Magnetic and/or electrostatic shielding
- Fuses
- Temperature switches

| Power VA | Dimensions - 6400K & 6500K Series | | | | | | | | | | Weight kg |
|----------|-----------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|-------------------|-----------|
| | L ±0.3 | W ±0.2 | H ±0.2 | x ±0.2 | y ±0.2 | a ±0.2 | b ±0.2 | d ±0.2 | e ±0.2 | D (SW - Hex) ±0.2 | |
| 35 | 80.0 | 63.1 | 43.3 | 5x 5 | 70 | 50 | 50 | 5.1 | 3.4 | 7 | 0.72 |
| 50 | 90.2 | 73.2 | 43.4 | 7x 5 | 80 | 60 | 60 | 5.1 | 3.4 | 7 | 0.72 |
| 90 | 100.0 | 83.5 | 43.4 | 9x 5 | 90 | 70 | 70 | 5.1 | 3.4 | 7 | 1.00 |
| 110 | 112.2 | 93.3 | 50.5 | 11x 5 | 100 | 80 | 80 | 6.1 | 3.4 | 10 | 1.35 |
| 160 | 120.3 | 103.3 | 55.5 | 13 x 5 | 110 | 90 | 90 | 6.1 | 3.4 | 10 | 1.80 |

Regional Locations - Design, Manufacturing, Sales & Marketing

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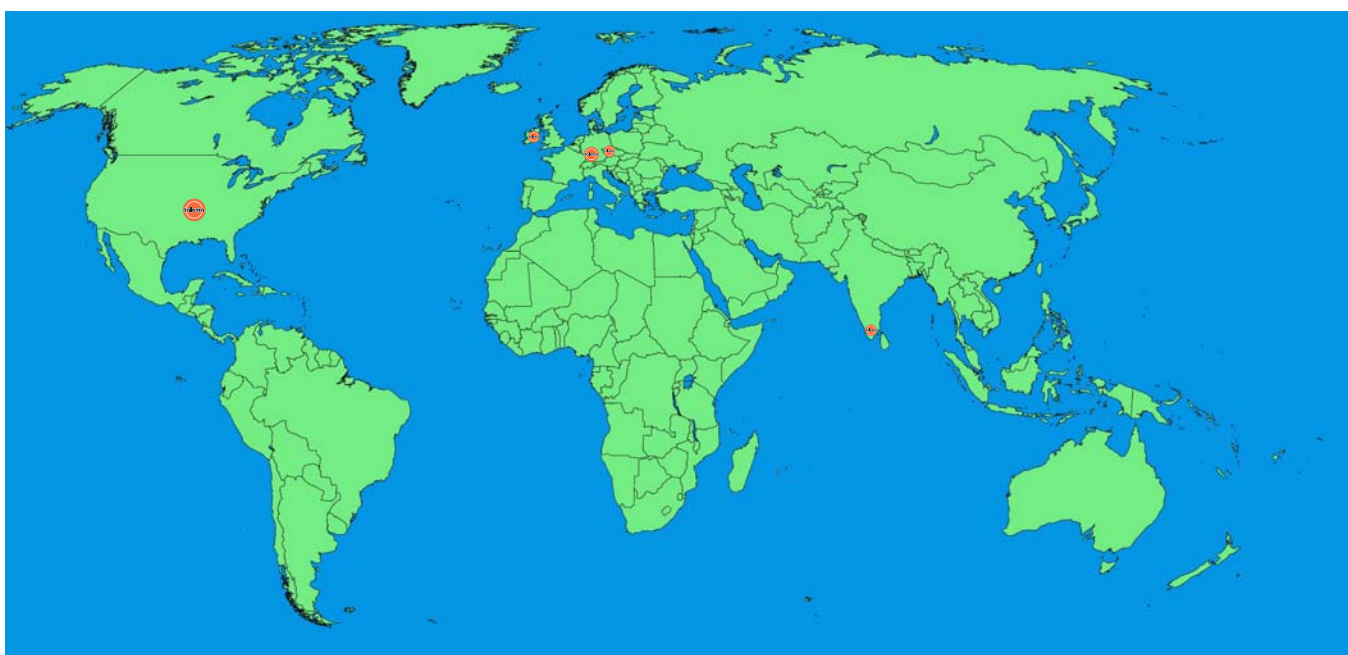
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 E-Mail: talema@talema.cz
 Web: www.ntmagnetics.cz

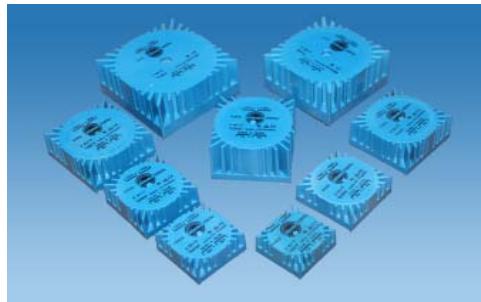
Locations of Talema Group Regional Offices



Summary TOTAL PROGRAM

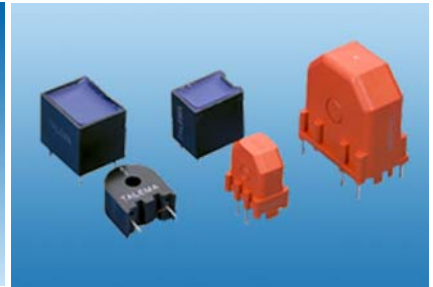
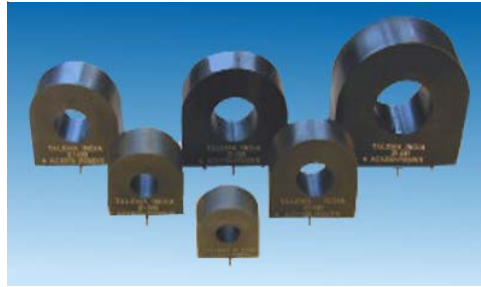
SECTION 1

- TOROIDAL 50/60Hz TRANSFORMERS,
TOROIDAL PCB TRANSFORMERS &
MEDICAL GRADE ISOLATION TRANSFORMERS



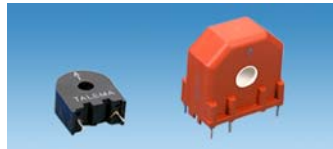
SECTION 2

- CURRENT SENSE TRANSFORMERS &
INDUCTORS



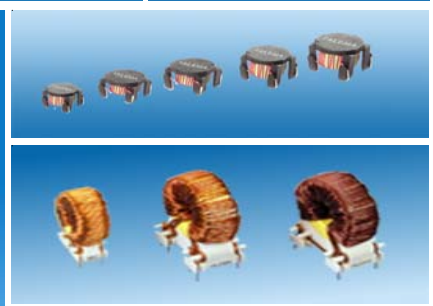
SECTION 3

- CHOKES, INDUCTORS AND TRANSFORMERS
FOR POWER APPLICATIONS



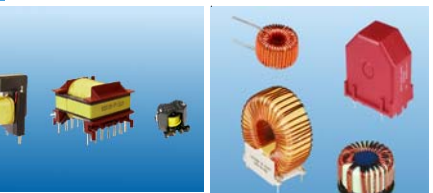
SECTION 4

- Transformers & Inductors FOR
SMPS MAGNETICS REQUIREMENTS



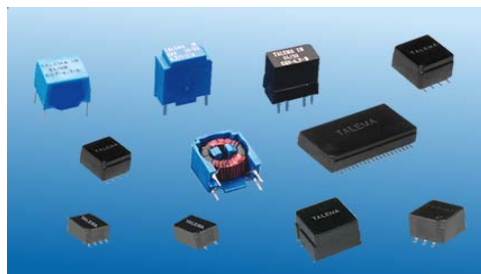
SECTION 5

- COMPONENTS FOR TELECOMMUNICATIONS
AND DATA LINE TECHNOLOGY



SECTION 6

- CURRENT COMPENSATED EMI NOISE
SUPPRESSION CHOKES



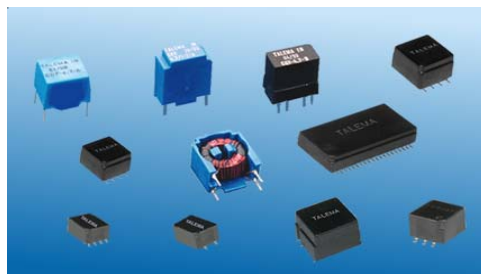
SECTION 7

- LAN MAGNETIC COMPONENTS FOR
ETHERNET APPLICATIONS



SECTION 8

- T1/E1/CEPT-PRI - T3/DS3/E3/STS-1 FOR
TELECOMMUNICATION PRODUCTS



SECTION 9

- TRANSFORMERS FOR BROADBAND ACCESS
AND FIBRE CHANNEL INTERFACE



SECTION 10

- THE TALEMA GROUP BROCHURE
OVERALL PRODUCTS - AN OVERVIEW

