



ETA-USA

The Power Professionals

ODC75-**SC ** Series

75Watt DC/DC Power Supply



SINGLE OUTPUT
 4:1 Wide input range VDC
 Isolation 2250VDC
 Efficiency up to 91%
 Wide operating temperature from -40°C to +70°C
 EMI class A without external circuit
 No minimum load required- Soft Start
 Meet EN50155
 Available Inputs Voltage (nominal):
 24VDC Nom (DC 9~36V) 48 VDC Nom (DC 18 ~ 75V)
 110VDC Nom (DC40~160)
 3 Year Warranty



		UNIT	ODC75-**SC24	ODC75-**SC48	ODC75-**SC110
INPUT	Nom Voltage (Range)	V	DC 24V (9~36)	DC 48V (18~75)	DC 110V (40~160)
	Current Typ.	mA	95~3551	60 - 1776	15~1420
	Start up Voltage		9Vdc	18Vdc	40Vdc
	Under Voltage shutdown	Vdc	7.5 Vdc	16 Vdc	36Vdc
	Voltage Surge	24VDC 48VDC 110VDC		Min. -0.7 Min. -0.7 Min. -0.7	Max. 50VDC Max. 100VD Max. 170

			ODC75-5SC24	ODC75-125SC24	ODC75-15SC24	ODC75-24SC24
OUTPUT	Nominal Voltage	VDC	5	12	15	24
	Capacitive Load max.	uF	30,000	5200	3300	1300
	Current	A	15	6.25	5	3.125
	Total Pwr	W	75	75	75	75
	Efficiency	%	88	90	90	90
	Line Regulation	%	+/-0.2%	+/-0.2%	+/-0.2%	+/-0.2%
	Load Regulation	%	+/-0.2%	+/-0.2%	+/-0.2%	+/-0.2%
	Switching Frequency	KHZ	250	250	250	250
	Ripple Noise	mVp-p	100	125	125	250
	OVER VOLTAGE PROTECTION	Vdc	6.2	15	18	30
	Voltage adjustability	%	+/- 10%	+/- 10%	+/- 10%	+/- 10%
	Transient res. recovery time 25% load step change	µs	250	250	250	250
	SHORT CIRCUIT PROTECTION		AUTO RECOVERY 120~170 %	AUTO RECOVERY 120~170 %	AUTO RECOVERY 120~170 %	AUTO RECOVERY 120~170 %
	Cooling		Convection			



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			ODC75-5SC48	ODC75-125SC48	ODC75-15SC48	ODC75-24SC48	
OUTPUT	Nominal Voltage	VDC	5	12	15	24	
	Capacitive Load max.	uF	30,000	5200	3300	1300	
	Current	A	15	6.25	5	3.125	
	Total Pwr	W	75	75	75	75	
	Efficiency	%	88	90	90	90	
	Line Regulation	%	+/-0.2%	+/-0.2%	+/-0.2%	+/-0.2%	
	Load Regulation	%	+/-0.2%	+/-0.2%	+/-0.2%	+/-0.2%	
	Switching Frequency	KHZ	250	250	250	250	
	Ripple Noise	mVp-p	100	125	125	250	
	OVER VOLTAGE PROTECTION	Vdc	6.2	15	18	30	
	Voltage adjustability	%	+/- 10%	+/- 10%	+/- 10%	+/- 10%	
	Transient res. recovery time 25% load step change	µs	250	250	250	250	
	SHORT CIRCUIT PROTECTION		AUTO RECOVERY 120-170 %	AUTO RECOVERY 120-170 %	AUTO RECOVERY 120-170 %	AUTO RECOVERY 120-170 %	
	Cooling		Convection				

			ODC75-5SC110	ODC75-125SC110	ODC75-15SC110	ODC75-24SC110	
OUTPUT	Nominal Voltage	VDC	5	12	15	24	
	Capacitive Load max.	uF	30,000	5200	3300	1300	
	Current	A	15	6.25	5	3.125	
	Total Pwr	W	75	75	75	75	
	Efficiency	%	88	91	90	90	
	Line Regulation	%	+/-0.2%	+/-0.2%	+/-0.2%	+/-0.2%	
	Load Regulation	%	+/-0.2%	+/-0.2%	+/-0.2%	+/-0.2%	
	Switching Frequency	KHZ	250	250	250	250	
	Ripple Noise	mVp-p	100	125	125	250	
	OVER VOLTAGE PROTECTION	Vdc	6.2	15	18	30	
	Voltage adjustability	%	+/- 10%	+/- 10%	+/- 10%	+/- 10%	
	Transient res. recovery time 25% load step change	µs	250	250	250	250	
	SHORT CIRCUIT PROTECTION		AUTO RECOVERY 120-170 %	AUTO RECOVERY 120-170 %	AUTO RECOVERY 120-170 %	AUTO RECOVERY 120-170 %	
	Cooling		Convection				

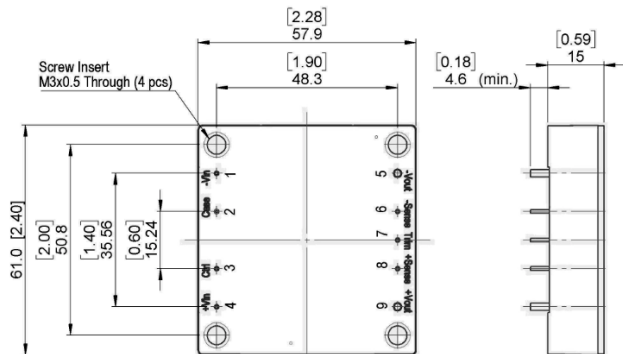




ISOLATION	Voltage input ~output	2250
	Resistance	>= 1000 MΩ (500VDC)
	Capacitance	
	Overload Protection 24VDC	>= 110% full load
	48VDC	
Environment	Operating temp	-40 ~ +70
	Storage	-55 ~ +125
	MTBF	MIL-HDBK-217F
Dimension	WxHxL mm	60.8 X 57.7X 15 mm
	Case Material Potting Material	Nickel Coated Copper with non-Conductive Base - Case Temp. 100C Base Plate Material -Non-Conductive FR4 Potting material Epoxy UL94V-0 Pin: Brass Solder Coated Thermal Shutdown 105 ~115 case
SAFETY	EMS	EN55024 ESD- EN61000-4-2air
	EMI	EN55032,EN55011,FCC part 15

PACKAGING (Parts packaged in tubes of 8)

Dimensions



Pins

PIN Assignment		
Pin	Define	Diameter
1	-Vin	1 mm[0.04"]
2	Case	1 mm[0.04"]
3	Ctrl	1 mm[0.04"]
4	+Vin	1 mm[0.04"]
5	-Vout	2 mm[0.08"]
6	-Sense	1 mm[0.04"]
7	Trim	1 mm[0.04"]
8	+Sense	1 mm[0.04"]
9	+Vout	2 mm[0.08"]

