



# 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
<b>INPUT</b>	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
<b>OUTPUT</b>	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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16170 Vineyard Blvd, Suite 180 Morgan Hill, CA 95037 <http://www.eta-usa.com>

Toll-free (US only): 800-ETA-POWR (800-382-7697) Telephone: 408 778-2793 FAX: 408-779-2753



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

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

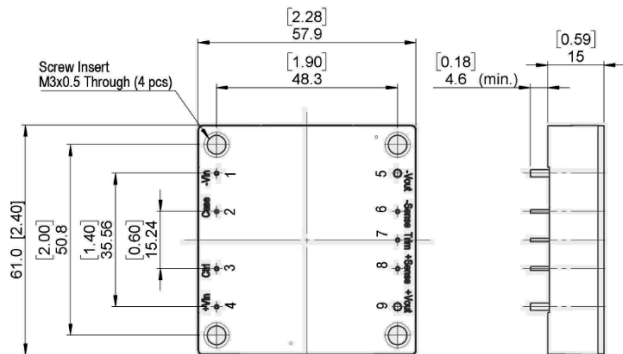




<b>ISOLATION</b>	Voltage input ~output	2250
	Resistance	>= 1000 MΩ (500VDC)
	Capacitance	
	Overload Protection 24VDC	>= 110% full load
	48VDC	
<b>Environment</b>	Operating temp	-40 ~ +70
	Storage	-55 ~ +125
	MTBF	MIL-HDBK-217F
<b>Dimension</b>	WxHxL mm	60.8 X 57.7X 15 mm
	Case Material Potting Material	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
<b>SAFETY</b>	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"]

