





Low Ripple Made in Germany

30 Watts Power Supply -20...+70°C 85..265Vac Input Voltage

Short Specification:

- Screw terminal plugs & Molex-plugs
- High efficiency up to 86%
- Continuous short circuit protected
- Overload & low voltage protected
- Soft start & auto-recovery
- Minimum load = 0A
- Hold up time >40ms
- Galvanic insulated
- Sense mode for 3.3V and 5V

Applications:

- critical loads like LED,
- thermal element & dc driveAudio applications very low
- ripple & noise
- Sensitive test equipment
- Mini DC-UPS

- Free air convection
- Series operation mode
- Parallel operation mode
- EMI/EMS EN61000-6-2,3, EN55022 class
- PFC : EN61000-3-2 class A
- Safety : cUL60950/16950 IEC(EN)60950-1
- Power LED
- Low ripple/noise , smart start-up with critical loads24 hours burn in test

Models: 5V, 9V, 12V, 15V, 18V, 24V, 48V, 60V

Powerbox Australia Pty Ltd Sydney (Head Office) 4 Beaumont Rd Mount Kuring Gai NSW 2080 AUSTRALIA 1800 251 380 sales@powerbox.com.au www.powerbox.com.au Powerbox Pacific LtdAuckland1a Henry Rose Place Albany Auckland0632 NEW ZEALAND09 4158 320sales@powerbox.co.nzwww.powerbox.co.nz

C F RoHS

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AC-Input	85265	Vac, 4763Hz, 110	375Vdc				
Input Rating	100240Vac , 115Vac <0.8A 230Vac <0.3A						
Rated DC-Voltage	5V	9V	12V	15V	24V	48V	60V
Rated DC-Current	5A	3.3A	2.5A	2A	1.3A	0.6A	0.5A
Ripple 20MHz 230Vac	15mV	15mV	10mV	10mV	50mV	100mV	100mV
DC adj. range	4,9-5,25	5V 8,5-9,9V	11,4-13,6V	14,2-22,5V	23,5-28,5V	45,6-53V	57-66V
Order Code	OSW00	301.(volt) example: 0	DSW00301.12				
Factory Adjust. Toleran	ce Uout	± 1%		I/A Derating at +60°C			
Load regulation		< ± 0.5% 10-100%, 100-10%		100%			
Switching Frequency		70KHz typical		75%			
Basic Load		0 A					
Efficiency		Up to 86%					
Load Protection		1,2x I _{rated} ,auto recovery					
Voltage Protection		140% of Uout, auto recovery					
Short Circuit Protection		Continuous		0%			
Temperature Control		Not available		30 40 50 60 70 80			
Hold Up Time		> 40ms 230Vac with full load					
Inrush Current		< 17A (230Vac)					
Softstart		30ms typ.		Terminal Connects: Screw terminal order			
Cooling		Free air convection		1 = L codes for SK1 & SK2: SK1 2 = N (each package = 10 p. Art.No. SK1: 3520054)			
Ambient Temperature		- 20°C+70°C					
Storage Temperature		- 40°C+85°C					r AC-input)
EMI		EN55022 class B / EN61000-3-2		1 = Sense - (5V only) Art.No. SK2: 3520037 Sk2 2 = DC - (3 pins for 1x DC-out)			
EMS		EN61000-6-2,3					.E. 001000.
Safety		EN60950-1, EN60204-1		SK2 2=1	DC -	(3 pins fo	r 1x DC-out)
		,		SK2 2=1 3=1		(3 pins fo	r 1x DC-out)
Safety class 1(A)		VDE0805, VDE0100				(3 pins fo	r 1x DC-out)
Air & Surface Leakage		VDE0805, VDE0100 > 8mm				(3 pins fo	r 1x DC-out)
		VDE0805, VDE0100 > 8mm IP-OP: 3kVac IP-GN				(3 pins fo	r 1x DC-out)
Air & Surface Leakage I Input to Output Isolation		VDE0805, VDE0100 > 8mm IP-OP: 3kVac IP-GN OP-GND:0.5kVac				(3 pins fo	r 1x DC-out)
Air & Surface Leakage I Input to Output Isolation MTBF EN61209	n	VDE0805, VDE0100 > 8mm IP-OP: 3kVac IP-GN OP-GND:0.5kVac 300000h	ID:2kVac			(3 pins fo	r 1x DC-out)
Air & Surface Leakage I Input to Output Isolation MTBF EN61209 MTTF EN61209.SN2950	n 0	VDE0805, VDE0100 > 8mm IP-OP: 3kVac IP-GN OP-GND:0.5kVac 300000h 125433h @ 40°C 24	ID:2kVac /7 85% load			(3 pins fo	r 1x DC-out)
Air & Surface Leakage I Input to Output Isolation MTBF EN61209 MTTF EN61209.SN29500 Clima/Dirt/Hight/Humidi	n 0	VDE0805, VDE0100 > 8mm IP-OP: 3kVac IP-GN OP-GND:0.5kVac 300000h 125433h @ 40°C 24 3k3, KI.2, 3000m NM	ID:2kVac /7 85% load N, 90% hum.			(3 pins fo	r 1x DC-out)
Air & Surface Leakage I Input to Output Isolation MTBF EN61209 MTTF EN61209.SN29500 Clima/Dirt/Hight/Humidi ROHS conformity	n 0	VDE0805, VDE0100 > 8mm IP-OP: 3kVac IP-GN OP-GND:0.5kVac 300000h 125433h @ 40°C 24 3k3, KI.2, 3000m NR ROHS Directive 201	ID:2kVac /7 85% load I, 90% hum. 11/65/EU			(3 pins fo	r 1x DC-out)
Air & Surface Leakage I Input to Output Isolation MTBF EN61209 MTTF EN61209.SN29500 Clima/Dirt/Hight/Humidi ROHS conformity REACH conformity	n 0	VDE0805, VDE0100 > 8mm IP-OP: 3kVac IP-GN OP-GND:0.5kVac 300000h 125433h @ 40°C 24 3k3, KI.2, 3000m NP ROHS Directive 201 REACH Directive 19	ID:2kVac /7 85% load I, 90% hum. 11/65/EU			(3 pins fo	r 1x DC-out)
Air & Surface Leakage I Input to Output Isolation MTBF EN61209 MTTF EN61209.SN29500 Clima/Dirt/Hight/Humidi ROHS conformity REACH conformity Dimensions (HxWxD)	n 0	VDE0805, VDE0100 > 8mm IP-OP: 3kVac IP-GN OP-GND:0.5kVac 300000h 125433h @ 40°C 24 3k3, K1.2, 3000m NP ROHS Directive 201 REACH Directive 19 28.5x62x96.5mm	ID:2kVac /7 85% load I, 90% hum. 11/65/EU			(3 pins fo	r 1x DC-out)
Air & Surface Leakage I Input to Output Isolation MTBF EN61209 MTTF EN61209.SN29500 Clima/Dirt/Hight/Humidi ROHS conformity REACH conformity Dimensions (HxWxD) Weight	n 0	VDE0805, VDE0100 > 8mm IP-OP: 3kVac IP-GN OP-GND:0.5kVac 300000h 125433h @ 40°C 24 3k3, K1.2, 3000m NI ROHS Directive 20 REACH Directive 19 28.5x62x96.5mm 145g	ID:2kVac /7 85% load I, 90% hum. 1/65/EU 907/2006			(3 pins fo	r 1x DC-out)
Air & Surface Leakage I Input to Output Isolation MTBF EN61209 MTTF EN61209.SN29500 Clima/Dirt/Hight/Humidi ROHS conformity REACH conformity Dimensions (HxWxD)	n O ity	VDE0805, VDE0100 > 8mm IP-OP: 3kVac IP-GN OP-GND:0.5kVac 300000h 125433h @ 40°C 24 3k3, K1.2, 3000m NP ROHS Directive 201 REACH Directive 19 28.5x62x96.5mm	ID:2kVac /7 85% load I, 90% hum. 1/65/EU 907/2006			(3 pins fo	r 1x DC-out)

Conception

The OSW power supply series realizes very high power efficiency in a space-saving housing. This design enables Green Power applications and allows free air convection. Latest generation electrical devices relate to the high reliability of all Camtec products. The Camtec philosophy is, to employ low ESR ultra long life capacitors where expedient to achieve a superior lifetime of our products. The used screw terminals allow easy to wire and smooth service. The units perform low ripple & noise. It makes them applicable for sensitive MSR and for Audio systems.

Sense operation

The OSW00751.05 provides sense connections to compensate a voltage drop over the load lines. The maximum compensation is 200mV. Be aware that this operation mode may recommend extended preparations concerning interference elimination or other protections. We recommend to use the sense wires twisted. Make sure that the polarization is correct to avoid damages to the power supply. All other OSW00751 models have no sense connection.

Parallel und series operation

Camtec power supplies of the same model and the same output voltage can be either used parallel or in series. The assembling of external parts is usually not recommended. Make sure that the output voltage of each connected unit is ±1% equal. We recommend connecting the DC-outputs to a neutral point or a power bar. Follow the safety norms of dangerous dc-voltages.

UI-Chart, overload and temperature control characteristic

The OSW models base on a typical resonance converter. The converter is ideal for complex loads and DC-drives. Consciously we resigned an excessive power boost that mostly occurs in less exact working control circuits. The advantage is, that the power supply delivers its energy always controlled and constant to the load. Even with a faulty operation of the power supply the loads never expose to high risk.

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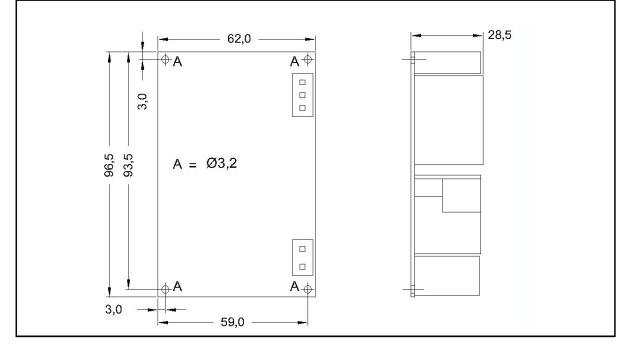
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Safety Instructions: Please read all warnings and advices carefully before installing or operating the power supply. Retain this operation manual always ready to hand. The device must be installed by specialist staff only.

Installation:

- 1.) The device is designed for systems fulfilling the safety norms of dangerous voltages/energy and fire prevention
- 2.) Installation is restricted to specialists only, make sure that the AC wire system is free of voltage
- 3.) Opening the unit, making any modifications to it, dismounting any screws from it, operating the HPW out of specification and/or using it in appropriate area will unevitably result in loosing manufactureres guarantee; we decline taking any responsibility for risk of demages caused to someones health or to any installed system.
- 4.) Attention: The power supply has an internal input fuse. It is necessary to wire an automatic circuit braker (MCB) to the line. We suggest to use a 8A-type with B-characteristic. Do not operate the power supply without protective earth wired. It essential to install a line switch before the device.

Warnings:

Disregard these warnings can cause fire, electic shock, serious accident and death.

- 1. Never operate the device without Protective Earth Conductor
- 2. Before connecting the unit to the AC wire system make all wires free of voltage and assure accidently switch on
- 3. Allow neat and professionel cabeling
- Never open nor try to repair the power supply by yourself. Inside are dangerous voltages that can cause electric shock hazard.
- 5. Avoid metal pieces or other conductive material to fall into the device
- 6. Do not operate the unit under damp or wet conditions
- 7. Do not operate the unit under Ex conditions or in Ex-Area

All parameters base on 15 minutes run-in @ full load / 25°C / 230Vac 50/60Hz, as otherwise stated.

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