

OSE01201

Low Ripple Made in Germany

120 Watts Power Supply -20...+70°C Baseplate Cooled Power 115/230Vac Input Voltage

Short Specification:

- Metal housing
- Up to 91% efficiency
- -20°C...+60°C full output power
- Free air convection
- Galvanic insulated
- Continuous short circuit protected
- Overload & low voltage protected
- Soft start & auto-recovery
- Hold up time >30ms
- Minimum load = 0A

- Switching frequency typ. 100KHz
- EMI/EMS EN61000-6-2,3, EN55022 class B
- PFC: EN61000-3-2 class A
- cUL60950/16950 IEC(EN)60950-1
- Series & parallel operation
- Open Frame
- Screw terminals AWG26...AWG12
- 24 hours burn in test
- High reliability, shock & vibration resistant

Applications:

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



Models: 12V, 24V, 36V, 48V, 60V, 72V, 110V





AC Input	85132Vac / 184265Vac , 4763Hz , 110375Vdc						
AC Nominal Input	115Vac <2.2A 230Vac <1.1A						
Nominal Voltage	12V	24V	36V	48V	60V	72V	110V
Nominal Current	8.0A	5.0A	3.3A	2.5A	2.0A	1,7A	1,1A
Adjust Range	11,413,2V	22,528,5V	34,239,6V	45,652,8V	5766V	6886V	100120V
Ripple 230Vac 20MHz	50mVpp	65mVpp	65mVpp	100mVpp	120mVpp	120mVpp	200mVpp
Order code: OSE01201.(Volt)W Example: 24Vdc= OSE01201.24T							

Factory Adjust. Tolerance Uout	± 1%	I/A Derating at +60°C		
Load regulation	< ± 0.5% 10-100%, 100-10%	100%		
Switching Frequency	100KHz typical	75%		
Basic Load	0 A			
Efficiency	91% typ.			
Load Protection	1,2x I _{rated} ,auto recovery			
Voltage Protection	145% of U _{out} , auto recovery			
Short Circuit Protection	Continuous	0%		
Temperature Control	Upon request	30 40 50 60 70 80		
Hold Up Time	> 30ms 230Vac			
Inrush Current	< 16A (230Vac)			
Soft start	50ms typical	Terminal Connects: Screw terminal order		
Cooling	Natural convection	1 = L codes for SK1 & SK2:		
Ambient Temperature	- 20°C+70°C	SK1 2 = N (each package = 10 pcs)		
Storage Temperature	- 40°C…+85°C	3 = GND Art.No. SK1: 3520038		
EMI	EN55022 class B / EN61000-3-2	(3 pins for AC-input)		
EMS	EN61000-6-2,3	1 = DC + Art.No. SK2: 3520037		
Safety	cUL60950 (classified in	2 = DC + (2 pins for 2x DCout)		
	accordance to EN60950-1),	SK2 3 = DC - 4 = DC -		
	EN60950-1, EN60204-1	4 = DC - 5 = n.c.		
Safety class 1(A)	VDE0805, VDE0100	5 = n.c. 6 = n.c.		
Air & Surface Leakage Paths	> 8mm	0 = 11.C.		
Input / Output Isolation	IP-OP:4kVac IP-GND:2kVac			
	OP-GND:0.5kVac			
MTBF EN61209	600000h			
MTTF EN61209, SN29500	149600h @ 40°C 24/7 85% load			
Clima/Dirt/Hight/Humidity	3k3, KI.2, 3000m NN, 90% hum.			
ROHS conformity	ROHS Directive 2011/65/EU			
REACH conformity	REACH Directive 1907/2006			
Dimensions (HxWxD)	See drawing page 3			
Weight	510g			
Connectors	Terminal plug AWG26AWG12			
SK1 & SK2 not included				

Conception:

The OSE 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 125°C 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.

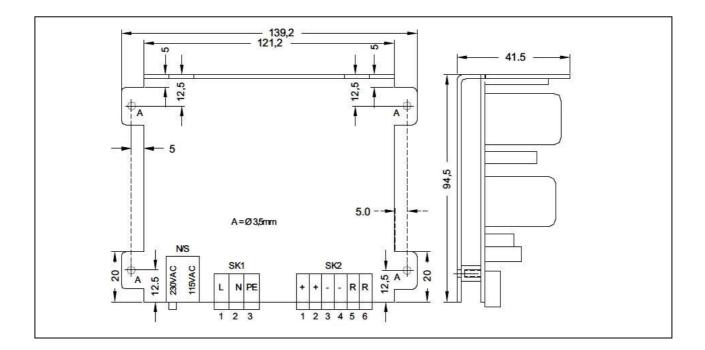
Parallel und series operation:

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 OSE models base on a typical resonance converter. The devices provide a good vertically C/V-chart with no fold. Thus the converter is ideal for complex loads, DC-drives and as a battery charger. 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.





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
- 4. 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.