

OSE01201

Open Frame

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

Smart start-up with critical loads:

- motor drives
- capacitive loads
- DC-DC-converters







Single-Output: 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 100% Load regulation < ± 0.5% 10-100%, 100-10% Switching Frequency 100KHz typical 75% **Basic Load** 0 A 91% typ. Efficiency Load Protection 1,2x Irated ,auto recovery 145% of Uout, auto recovery **Voltage Protection Short Circuit Protection** Continuous 0% **Temperature Control** Upon request 40 30 50 60 70 80 Hold Up Time > 30ms 230Vac **Inrush Current** < 16A (230Vac) **Terminal Connects:** Softstart 50ms typical Cooling Natural convection 1 = L- 20°C...+70°C SK1 2 = N **Ambient Temperature** 3 = GND Storage Temperature - 40°C...+85°C EMI EN55022 class B / EN61000-3-2 1 = DC +EMS EN61000-6-2,3 2 = DC + Safety cUL60950, EN60950-1, EN60204-1 SK2 3 = DC -Safety class 1(A) VDE0805, VDE0100 4 = DC -Air & Surface Leakage Paths > 8mm 5 = n.c. I/P-O/P:4KVac I/P-G:2KVac Input / Output Isolation 6 = n.c. O/P-G:0.5KVac **MTBF EN61209** 600000h **Option screw terminals:** MTTF EN61209.SN29500 149600h @ 40°C 24/7 85% Load order codes Climate/Dirt/Altitude/Humidity 3k3, KI.2, 3000m NN, 90% Hum. (each package = 10 pcs) **Dimensions (HxWxD)** 124x50x96mm for SK1 1pc (3520038) Weight 510g SK2 2-3pcs (3520037) Art.No.: 3520038 (3 pins) Connectors (AC & DC) Terminal plug AWG26...AWG12 Art.No.: 3520037 (2 pins)

Conception:

The OSE/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 products. The product philosophy is, to employ 125°C low ESR ultra long life capacitors where expedient to achieve a superior lifetime of our products. The screw terminals used allow easy wiring and smooth service.

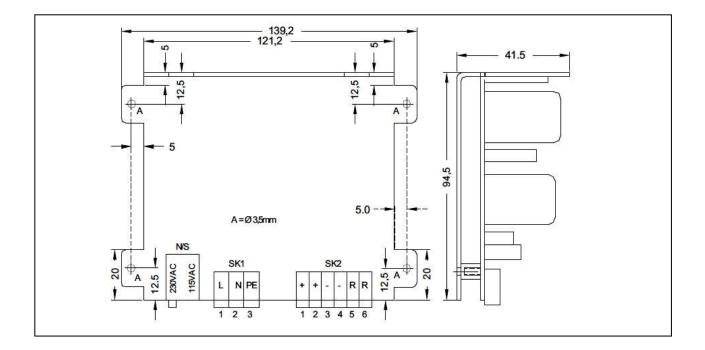
Parallel and serial operation:

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 $\pm 1\%$ 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 are based on a typical resonant converter. The devices provide a good vertically C/V-chart with no foldback, thus the converter is ideal for complex loads and DC-drives. Consciously we resigned an excessive Powerboost 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 load is never exposed 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 qualified engineer 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 qualified engineer 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 OSE out of specification and/or using it in appropriate area will inevitably result in loosing manufactureres guarantee; we decline taking any responsibility for risk of damages 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 breaker (MCB) to the line. We suggest to use a 16A-type with B-characteristic. It is forbidden to operate the power supply without the protective earth wired. It is essential to install a line switch before the device.

Warnings:

Disregard these warnings can cause fire, electic shock, serious accident or 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
- It is forbidden to 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, unless otherwise stated.