

OSW00301

Open Frame

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
- Softstart & auto-recovery
- Minimum load = 0A
- Hold up time >40ms
- Galvanic isolation
- Sense mode for 3.3V and 5V

- 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 loads, 24 hours burn in test

Applications:

- critical loads like LED, thermal element & dc drive
- Audio applications, very low ripple & noise

- Sensitive test equipment

- Mini DC-UPS







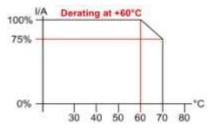
Single-Output: 5V, 9V, 12V, 15V, 18V, 24V, 48V, 60V





AC-Input	85265Vac , 4763Hz , 110375Vdc						
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	4,9-5,25V	8,5-9,9V	11,4-13,6V	14,2-22,5V	23,5-28,5V	45,6-53V	57-66V
Order Code	OSW00301 (volt)W example: OSW00301 12W						

Factory Adjust. Tolerance Uout	± 1%			
Load regulation	< ± 0.5% 10-100%, 100-10%			
Switching Frequency	70KHz typical			
Basic Load	0 A			
Efficiency	Up to 86%			
Load Protection	1,2x I _{rated} ,auto recovery			
Voltage Protection	140% of U _{out} , auto recovery			
Short Circuit Protection	Continuous			
Temperature Control	Not available			
Hold Up Time	> 40ms 230Vac with full load			
Inrush Current	< 17A (230Vac)			
Softstart	30ms typ.			
Cooling	Free air convection			
Ambient Temperature	- 20°C+70°C			
Storage Temperature	- 40°C+85°C			
EMI	EN55022 class B / EN61000-3-2			
EMS	EN61000-6-2,3			
Safety	EN60950-1, EN60204-1			
Safety class 1(A)	VDE0805, VDE0100			
Air & Surface Leakage Paths	> 8mm			
Input / Output Isolation	I/P-O/P:4KVac I/P-G:2KVac			
	O/P-G:0.5KVac			
MTBF EN61209	300000h			
MTTF EN61209.SN29500	125433h @ 40°C 24/7 85% load			
Dimensions (HxWxD)	28.5x62x96.5mm			
Weight	145g			
Connectors (AC & DC)	See options			



Terminal Connects:

SK1 2 = N

1 = Sense - (5V

only) Sk2

2 = DC -3 = DC +

Options order code: Weidmueller Terminals: (each package = 10 pcs) SK1 Art.No.: 3520054 2pole

SK2 Art.No.: 3520055 3pole

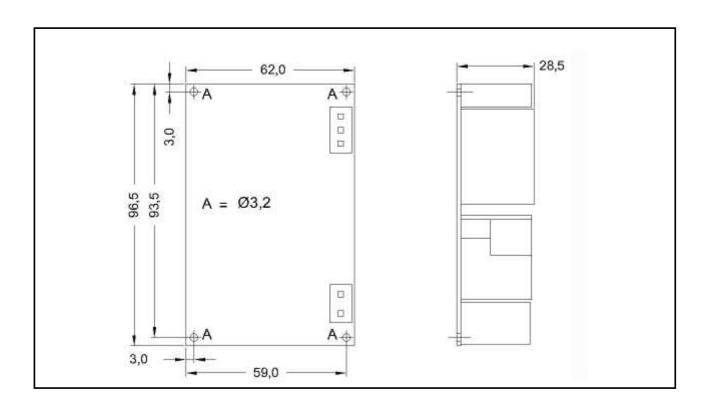
Conception:

The OSW power supply series realizes 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 high-end 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 in 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.





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 OSW 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 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
- 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. 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.