

OSW00751

Low Ripple

Made in Germany

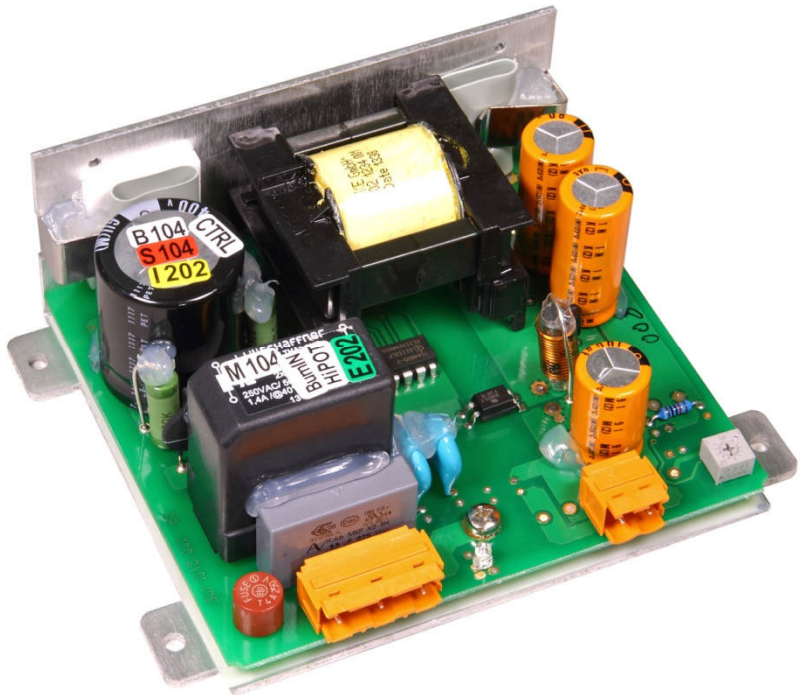
75 Watts Power Supply -20...+70°C
Baseplate Cooled Power
85..265Vac Input Voltage

Short Specification:

- Metal housing
- > 91% efficiency typical
- -20°C...+60°C full output power
- Natural convection
- Galvanic insulated
- Continuous short circuit protected
- Overload & low voltage protected
- Soft start & auto-recovery
- Hold up time >40ms
- Minimum load = 0A
- EMI/EMS EN61000-6-2,3, EN55022 class B
- PFC: EN61000-3-2 class A
- cUL60950/16950 IEC(EN)60950-1
- Series & parallel operation
- DIN Rail 35mm
- Screwing 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**
- **Mini DC-UPS**



Models: 5V, 9V, 12V, 15V, 24V

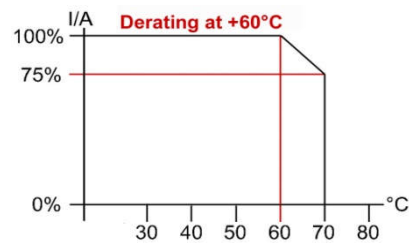


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(Subject to alterations. This product is not designed to be used in applications such as life support systems wherein a failure or malfunction could result in injury or death)

AC Input	85...265Vac , 47...63Hz , 110...375Vdc				
AC Input Rating	100...240Vac , 115Vac <1.6A 230Vac <0.8A				
Rated DC Voltage	5V	9V	12V	15V	24V
Rated DC Current	7.5A	7.6A	6.0A	5.0A	3.2A
Power Boost ≤60 sec.	9.0A	9.12A	7.2A	6.0A	3.84A
Ripple [mVpp] ^{230Vac/20MHz}	15mV	15mV	20mV	20mV	50mV
Output adj. Range [V]	4,9..5,5	8,6..9,9	11,4..13,2	14,3..16,5	22,5..28,5
Sense Compensation	200mV	No	No	No	No
Stability Load switch	± 0,1%	± 0,5%	± 0,3%	± 0,2%	± 0,1%
Options: coating finish on electronic circuits (Option C)					
Order code: OSW00751.Vout+options Example: 24V for DIN-Rail with coating = OSW00751.24WC					

Tolerance	± 1%
Load regulation	< ± 0.5% 10-100%, 100-10%
Minimum Load	0 A
Efficiency	Up to 90%
Load Protection	1,2x I _{rated} , auto recovery
Voltage Protection	140% of U _{out} , auto recovery
Short Circuit Protection	Continuous
Hold Up Time	> 40ms 230Vac
Inrush Current	< 32A (230Vac)
Softstart	50ms typical
Cooling	Natural 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 to Output Isolation	IP-OP: 3kVac IP-GND:2kVac OP-GND:0.5kVac
MTBF IEC61709	400000h
MTTF EN61209, SN29500	140182h @ 40°C 24/7 85% load
Clima/Dir/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	300g
Connectors	Terminal plug AWG26...AWG12
SK1 & SK2 not included	



Terminal Connects:

- SK1
- 1 = L
 - 2 = N
 - 3 = GND
- SK2
- 1 = sense +
 - 2 = sense -
 - 3 = DC +
 - 4 = DC -
 - 5 = n.c.
 - 6 = n.c.

Screw terminal order codes for SK1 & SK2:

- (each package = 10 pcs)
- Art.No. SK1: 3520038
(3 pins for AC-input)
- Art.No. SK2: 3520037
(2 pins for 1x DCout & 1x Sense)

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 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. The units perform low ripple & noise. It makes them applicable for sensitive MSR and for Audio systems.

Sense operation

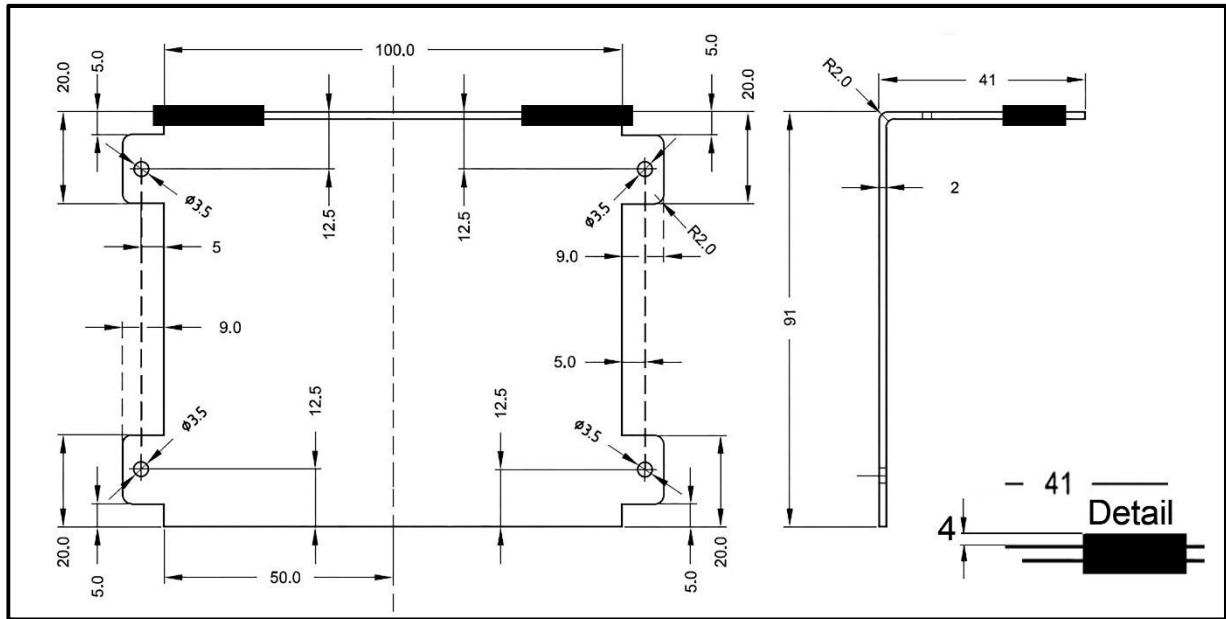
The OSW00751.05 provides sense connections to compensate a voltage drop over the load lines. The maximum compensation is 200mV. Be aware that this operation mode may recommend extended preparations concerning interference elimination or other protections. We recommend to use the sense wires twisted. 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.




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, dismantling any screws from it, operating the HPW out of specification and/or using it in appropriate area will inevitably result in losing manufacturer's guarantee; we decline taking any responsibility for risk of damages caused to someone's 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 10A-type with B-characteristic. Do not operate the power supply without protective earth wiring. It is important to install a line switch in front of the device.

Warnings:

Disregard these warnings can cause fire, electric 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 accidentally switch on
3. Allow neat and professional cabling
4. Never open nor try to repair the device by yourself. Inside are dangerous voltages that can cause electric shock hazard.
5. Avoid metal pieces or other conductive material to fall into the power supply
6. Do not operate the device under damp or wet conditions
7. Do not operate the device 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.