

HSW00901

DIN Rail

Made in Germany

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

Short Specification:

- Metal housing
- > 90% 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



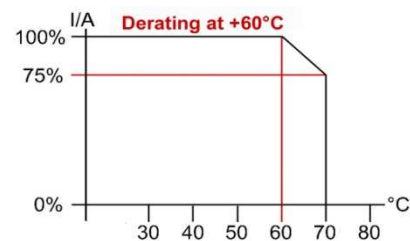
Single-Output: 24V, 36V, 48V, 60V, 72V, 140V



In accordance with IEC60950-1

AC Input	85...265Vac , 47...63Hz , 110...375Vdc					
Input Rating	100...240Vac , 115Vac <1.9A 230Vac <0.9A					
Rated DC Voltage	24V	36V	48V	60V	72V	140V
Rated DC Current	3.8A	2.5A	1.9A	1.5A	1.3A	640mA
Power Boost ≤60 Seconds	4.6A	3.0A	3.7A	1.8A	1.6A	770mA
Ripple [mVpp] (230Vac/20MHz)	50	60	60	100	120	120
Output adj. Range [V]	22,5..28,5	34,2..39,6	45,6..52,8	57,0..66,0	68,0...86,0V	133,0..155,0
Stability Load switch 0-100%	± 0,1%	± 0,1%	± 0,1%	± 0,1%	± 0,3%	± 0,5%
Options: coating finish on electronic circuits (Option C)						
Order code: HSW00901.Vout+T+options Example: 24V for DIN-Rail with coating = HSW00901.24TC						

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	cUL60950, EN60950-1, EN60204-1
Safety class 1(A)	VDE0805, VDE0100
Air & Surface Leakage Paths	> 8mm
Input/Output	Galvanic insulated 3000Vac
Power Good Relay (opener)	<48Vdc/500mA (galv. insulated)
MTBF IEC61709	590000h
MTTF EN61209,SN29500	140056h @ 40°C 24/7 85% Load
Dimensions (HxWxD)	102x50x96mm
Weight	300g
Connectors (AC & DC)	Terminal plug AWG26...AWG12



Terminal Connects:

- SK1
- 1 = L
 - 2 = N
 - 3 = GND
- SK2
- 1 = not used
 - 2 = not used
 - 3 = DC +
 - 4 = DC -
 - 5 = power good
- relay
- 6 = power good

Screw terminal order

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

Conception:

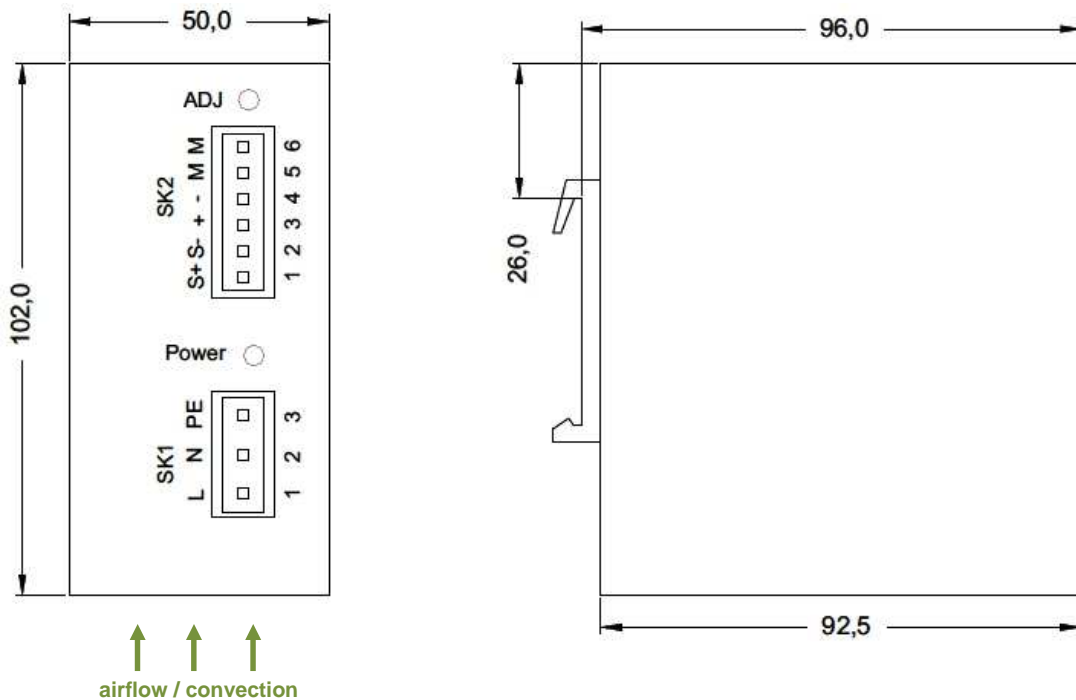
The HSW power supply series realizes very high power efficiency in a small housing. Latest generation electrical devices relate to the high reliability of all Camtec products. The Camtec philosophy is, to employ 125°C low ESR ultra long life capacitors where expedient to achieve a superior lifetime. The used screwing terminals allow easy to wire, smooth service and protection from mixing-up the input with the output connections.

Parallel Operation Mode:

Parallel operation of equal HSW-Power-Supplies provides you a higher output power. Make sure that the DC voltages differ is only ±1% and that DC cables are equal of equal length.

Series Operation Mode:

To raise the output voltage you can drive equal HSW power supplies in series, too.




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 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 verboten to 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, electric shock, serious accident and death.

1. **Never operate the unit without Protective Earth Conductor**
2. **Before connecting the device to the AC wire system make all wires free of voltage and assure accidently switch on**
3. **Allow neat and professional cabeling**
4. **Never open nor try to repair the unit 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. **It is verboten 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, as otherwise stated.