

# 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

### Smart start-up with critical loads:

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



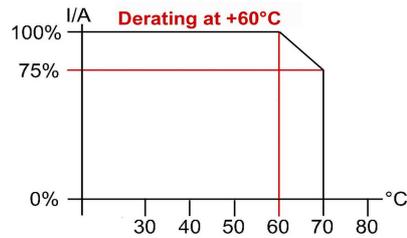
**Single-Output: 24V, 36V, 48V, 60V, 72V, 140V**



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 <sub>rated</sub> ,auto recovery
Voltage Protection	140% of U <sub>out</sub> , 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	cUL60950/1950 , EN60950-1
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	500000h
Dimensions (HxWxD)	102x50x96mm
Weight	300g
Connectors (AC & DC)	Terminal plug AWG26...AWG12



#### Terminal Connects:

SK1  
1 = L  
2 = N  
3 = GND

SK2  
1 = sense +  
2 = sense -  
3 = DC +  
4 = DC -  
5 = power good relay  
6 = power good relay

#### 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.

