HSW00751

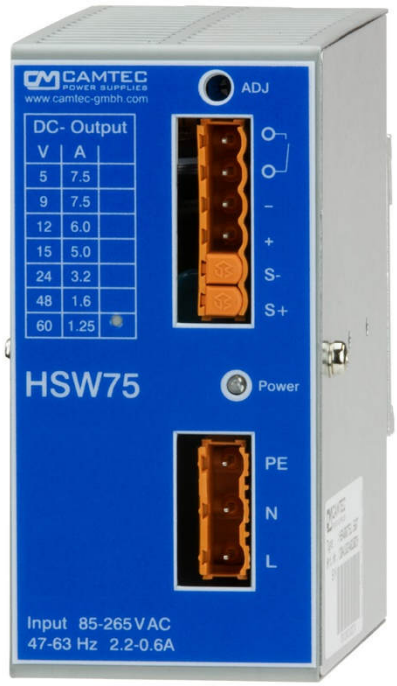
DIN Rail

Made in Germany

75 Watts Power Supply -20...+70°C
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



Single-Output: 5V, 9V, 12V, 15V, 24V

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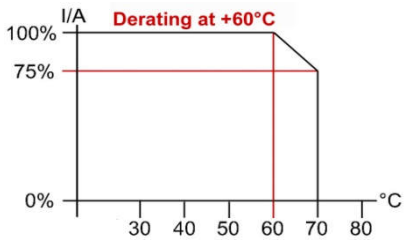
AC Input	**85...265Vac , 47...63Hz , 110…375Vdc**				
AC Input Rating	**100...240Vac , 115Vac <1.6A 230Vac <0.8A**				
Rated DC Voltage	**5V**	**9V**	**12V**	**15V**	**24V**
Rated DC Current	**7.5A**	**7.6A**	**6.0A**	**5.0A**	**3.2A**
Power Boost ≤60 sec.	**9.0A**	**9.12A**	**7.2A**	**6.0A**	**3.84A**
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: HSW00751.Vout+T+options Example: 24V for DIN-Rail with coating = HSW00751.24TC					

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	**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	**500000h**
MTTF EN61209,SN29500	**140182h @ 40°C 24/7 85% Load**
Clima/Dirt/Hight/Humidity	**3k3, Kl.2, 3000m NN, 90% Hum.**
Dimensions (HxWxD)	**102x50x96mm**
Weight	**300g**
Connectors (AC & DC)	**Terminal plug AWG26...AWG12**



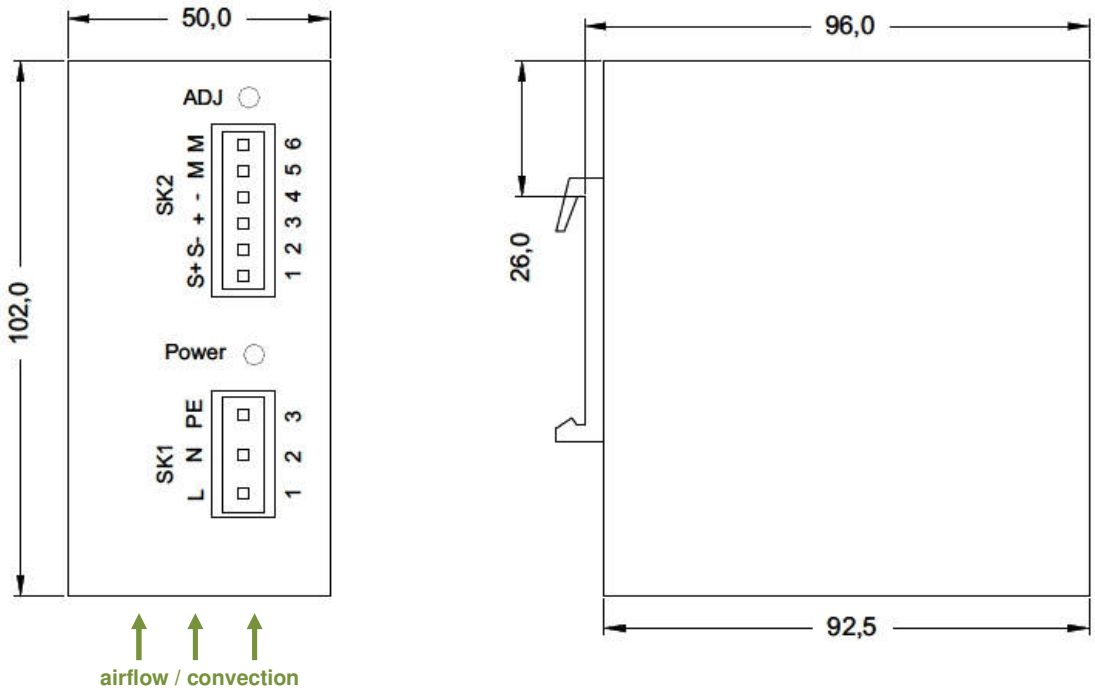
Terminal Connects:

	1 = L
SK1	**2 = N**
	3 = GND
	1 = sense +
	2 = sense -
SK2	**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.
Sensing:
Only for 5V-version available. Compensation: 200mV



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, dismounting any screws from it, operating the HPW out of specification and/or using it in appropriate area will unevitably result in loosing manufactureres guarantee; we decline taking any responsibility for risk of demages 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 braker (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, electic 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 accidently switch on**
3. **Allow neat and professionel cabeling**
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. **It is verboten to 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.

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