

# HSE04801

# DIN Rail

Made in Germany

**480 Watts Power Supply -20...+70°C**  
**115/230Vac Input Voltage**

## Short Specification:

- Metal housing
- Up to 91% efficiency
- -20°C...+60°C full output power
- Free air convection
- Galvanic insulated
- Continuous short circuit protected
- Overload & low voltage protected
- Soft start & auto-recovery
- Hold up time >50ms
- Minimum load = 0A
- AC-Input 115/230Vac
- EMI/EMS EN61000-6-2/3, EN55022 class B
- IEC(EN)60950-1
- Series & parallel operation
- DIN Rail 35mm
- Screw terminals AWG20...AWG6
- 24 hours burn in test
- High reliability, shock & vibration resistant

### Smart start-up with critical loads:

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



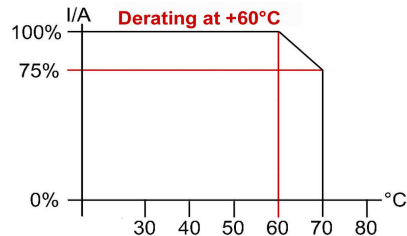
**Single-Output: 12V, 15V, 24V, 36V, 48V**



In accordance with IEC60950-1

<b>AC Input</b>	90..132Vac / 184..265Vac , 47...63Hz , 250...375Vdc				
<b>AC Input Rating</b>	115Vac <8.8A 230Vac <4.3A				
<b>Rated DC Voltage</b>	12V	15V	24V	36V	48V
<b>Rated DC Current</b>	30.0A	26.0A	20.0A	13.3A	10.0A
<b>Ripple [mVpp] <sub>230Vac</sub></b>	40 (20MHz)	50 (20MHz)	50 (20MHz)	100 (20MHz)	100 (20MHz)
<b>Output adj. range</b>	11,4...13,2V	14,2...16,5V	22,5...28,5V	34,2...39,6V	45,6...52,8V
Order code: HSE04801.Vout+T Example: 24V for DIN-Rail = HSE04801.24T					

<b>Tolerance</b>	± 1%
<b>Load regulation</b>	< ± 0.5% 10-100%, 100-10%
<b>Switching Frequency</b>	100KHz typical
<b>Minimum Load</b>	0 A
<b>Efficiency</b>	Up to 91%
<b>Load Protection</b>	1,1x I <sub>rated</sub> ,auto recovery
<b>Voltage Protection</b>	140% of U <sub>out</sub> , auto recovery
<b>Short Circuit Protection</b>	Continuous
<b>Temperature Control</b>	Yes
<b>Hold Up Time</b>	> 50ms 230Vac
<b>Inrush Current</b>	< 81A (230Vac)
<b>Softstart</b>	100ms typical
<b>Cooling</b>	Natural convection
<b>Ambient Temperature</b>	- 20°C ...+70°C
<b>Storage Temperature</b>	- 40°C ...+85°C
<b>EMI</b>	EN55022 class B
<b>EMS</b>	EN61000-6-2,3
<b>Safety</b>	cUL60950/1950 , EN60950-1
<b>Safety class 1(A)</b>	VDE0805, VDE0100
<b>Air &amp; Surface Leakage Paths</b>	> 8mm
<b>Input/Output</b>	Galvanic insulated 3000Vac
<b>Power Good Relay (opener)</b>	<48Vdc/500mA (galv. insulated)
<b>MTBF IEC61709</b>	500000h
<b>Dimensions (HxWxD)</b>	130x200x118mm
<b>Weight</b>	2800g
<b>Screw Connectors (AC &amp; DC)</b>	AWG20...AWG6
<b>Options: wallmount or coating options upon request</b>	



**Terminal Connects:**

- SK1  
 1 = GND / PE  
 2 = L  
 3 = N

- SK2  
 1 = DC +  
 2 = DC +  
 3 = DC -  
 4 = DC -  
 B = power good  
 B = power good

**A**  
 Select operation mode between single/series- and parallel-mode.

**Screw terminal order codes:** Art.No.: 3520037 (2 pins)  
 (each package = 10 pcs )  
 for power good relay

**Conception:**

The HSE 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.

**Parallel Operation Mode:**

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

**Series Operation Mode:**

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

