

HSE04801

DIN Rail

Made in Germany

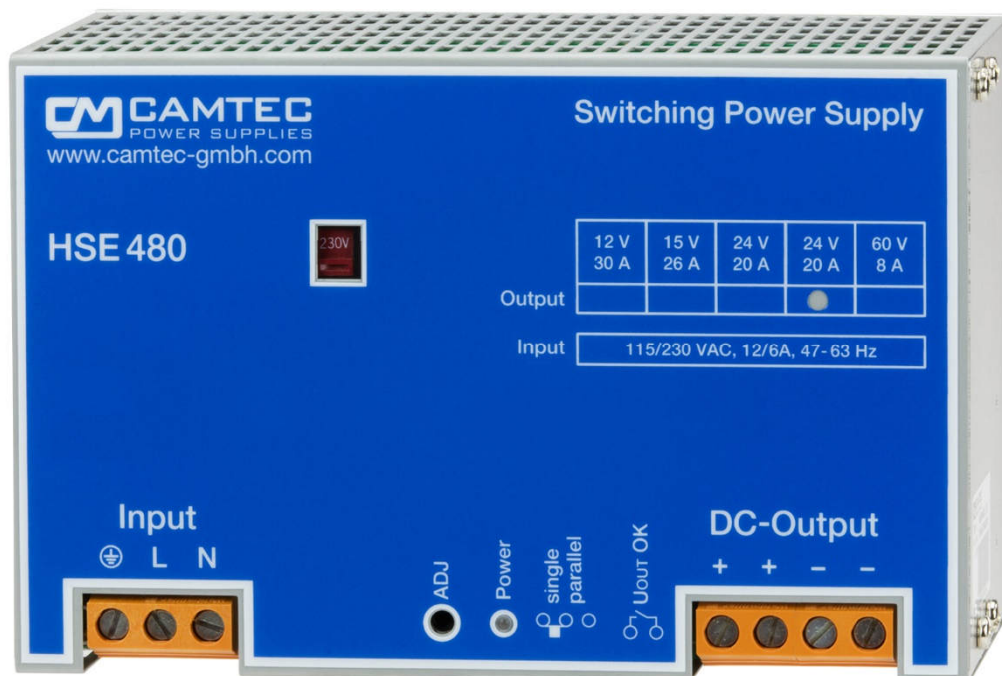
480 Watts Power Supply -20...+70°C
115/230Vac Input Voltage

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



Output: 12V, 15V, 24V, 36V, 48V



p.1/3 (09.2016.01.0)

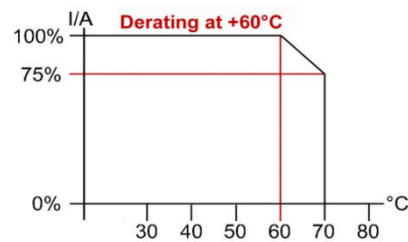
(Subject to alterations. This product is not designed to be used in applications such as life support systems wherein a failure or malfunction could result in injury or death)

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10/05/18

| | | | | | |
|---------------------------------|--|-----------------|-----------------|-----------------|-----------------|
| AC Input Range | 85...132Vac / 184..264Vac 47...63Hz , 250...375Vdc | | | | |
| AC Input | 115Vac <8.8A 230Vac <4.3A | | | | |
| Article number | HSE04801.12T | HSE04801.15T | HSE04801.24T | HSE04801.36T | HSE04801.48T |
| With Coating Option (p.3) | HSE04801.12TC | HSE04801.15TC | HSE04801.24TC | HSE04801.36TC | HSE04801.48TC |
| DC Output | 12V | 15V | 24V | 36V | 48V |
| DC Continuous Current | 30.0A | 26.0A | 20.0A | 13.3A | 10.0A |
| Boost ≤60 Seconds | 33.0A | 28.6A | 22.0A | 14.6A | 11.0A |
| Ripple [mVpp] (230Vac/20MHz) | 40 | 50 | 50 | 100 | 100 |
| DC Adjust | 11,4-14,4V | 14,2-18V | 22,8-28,8V | 34,2-43,2V | 45,6-52,8V |
| Stability Load Switch | ± xxx% (0-100%) | ± xxx% (0-100%) | ± xxx% (0-100%) | ± xxx% (0-100%) | ± xxx% (0-100%) |

| | |
|-----------------------------|---|
| Tolerance | ± 1% |
| Load regulation | < ± 0.5% 10-100%, 100-10% |
| Switching Frequency | 100KHz typical |
| Minimum Load | 0 A |
| Efficiency | Up to 91% |
| Load Protection | 1,1x I _{rated} , auto recovery |
| Voltage Protection | 140% of U _{out} , auto recovery |
| Short Circuit Protection | Continuous |
| Temperature Control | Yes |
| Hold Up Time | > 50ms 230Vac |
| Inrush Current | < 40A (230Vac) |
| Suggested MCB | B16A |
| Softstart | 100ms typical |
| Cooling | Natural convection |
| Ambient Temperature | - 20°C...+70°C |
| Storage Temperature | - 40°C...+85°C |
| EMI | EN55022 class B |
| EMS | EN61000-6-2,3 |
| Safety | EN60950-1, EN60204-1 |
| Safety class 1(A) | VDE0805, VDE0100 |
| Air & Surface Leakage Paths | > 8mm |
| Input / Output Isolation | AC-Input/DC-Output : 3KV, Input/GND 2KV, Output/GND 500Vdc |
| Power Good Relay (opener) | <48Vdc/500mA (galv. Insulated 60Vdc) |
| MTBF EN61709 | 499.101h |
| MTTF IEC60050 | 127.124h (40°C/230Vac/75%) |
| Humidity Operation | 95% non condensing @ 25°C |
| Klimatic Class | 3K3 |
| Pollution Degree | II A |
| Operation Altitude | 3000m above sea level |
| ROHS | 2011/65/EG confirmed |
| REACH | EG No. 1907/2006 confirmed |
| Dimensions (HxWxD) | 130x200x118,5mm |
| Weight | 2800g |
| Screw Connectors (AC & DC) | AWG20...AWG6 |



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-
mode and parallel-mode.

Screw terminal order
codes:
(each package = 10 pcs)
for power good relay

Art.No.: 3520037 (2 pins)

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 and Serial Operation:

Camtec power supplies of the same model and the same output voltage can be either used parallel or in serial. 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. Most of the HSE power supplies allow selecting a parallel operation mode with a switcher B (not HSE01201 & HSE03201). The parallel operation select tilts the C/V-chart a little bit. In result the switching is softer. The power sharing between the units is more accurate. The HSE models can be used floating until 300Vdc (not HSE01201 & HSE03201)

