

PULS does it again:  
practical, versatile and reliable like  
the SilverLine – yet small like  
no other.

**PULS**



Data Sheet

# MiniLine

## with DC 48-56V / 100W

- Mounted and connected in record time, no tools required
- World-wide approvals (UL, EN, CSA, CB Scheme) for industry and office/home
- Tiny: WxHxD = 73 x 75 x 103mm
- Adjustable output voltage up to DC 56V
- 115/230V Auto Select Input
- PULS Overload Design™ (high output overload capability)
- Selectable single/parallel operation (jumper)

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**Mini is more.**

### Input

|                                     |                                                                                                                    |
|-------------------------------------|--------------------------------------------------------------------------------------------------------------------|
| Input voltage                       | AC 100-120/220-240V (Auto Select), 47...63 Hz<br>(AC 85...132V / AC 184...264V,<br>DC 220...375V, N=⊕ and L=⊖)     |
| Input current                       | <2.1A (@ AC 100V <sub>in</sub> , 100W P <sub>out</sub> )<br><1A (@ AC 220V <sub>in</sub> , 100W P <sub>out</sub> ) |
| External fusing                     | not required, unit provides internal fuse<br>(T3A15H, not accessible)                                              |
| Transient immunity                  | Transient resistance acc. to VDE 0160 / W2<br>(750V/ 1.3 ms), over entire load range                               |
| Hold-up time<br>(see diagram below) | >40 ms @ AC 230V, 48V / 2.1A<br>>20 ms @ AC 196V, 48V / 2.1A<br>>20 ms @ AC 100V, 48V / 2.1A                       |

### Efficiency, Reliability

|                    |                                                                                                |
|--------------------|------------------------------------------------------------------------------------------------|
| Efficiency         | typ. 91% (AC 230V, 48V / 2.1A)<br>(see also diagram below)                                     |
| Losses             | typ. 10W (AC 230V, 48V / 2.1A)                                                                 |
| MTBF (Reliability) | appr. 500.000 h acc. to Siemensnorm SN 29500<br>48V / 2.1A, AC 230V, T <sub>amb</sub> = +40 °C |

Prior to shipment, every unit undergoes the following tests in order to isolate any defective units which might suffer an early failure:

- Run-in/burn-in (Full load, T<sub>amb</sub> = +60°C, on/off cycle)
- Functional test (100 %)

### Construction, Mechanics, Installation

Robust plastic housing (US Patent No. D442, 923S), fine ventilation grid on three housing sides to keep out small parts (e.g. screws), IP20

Dimensions and weight

- W x H x D 73 mm x 75 mm x 103 mm (+ DIN rail)  
Depth incl. terminals: 98 mm (+ DIN rail)
- Weight 360 g

Mounting orientation  (cf. 'Output')

Ventilation/Cooling Normal convection, no fan required

- Free space f. cooling recom'd.: 25mm on sides with ventilation grid

Easy snap-on mounting onto the DIN-rail (TS35/7,5 or TS35/15).

Unit sits safely and firmly on the rail; no tools required even to remove

Connection by Spring Clamp terminals; uniformly firm hold, vibration-resistant and maintenance-free: 2 terminals per output

Connector size range

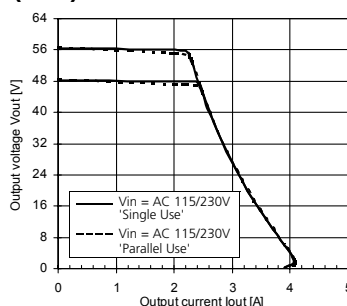
- flexible cable 0.3-2.5mm<sup>2</sup> (28-12 AWG)
- solid cable 0.3-4mm<sup>2</sup> (28-12 AWG)  
Ferrules admissible
- Wire strip length 6mm (0.24in) recommended

Design details – for your advantage:

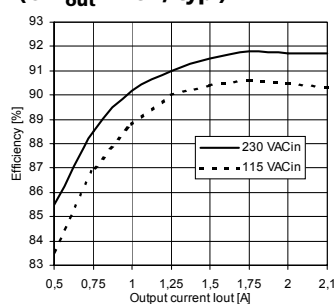
- All terminals are easy to reach as mounted on the front panel.
- Input and output are strictly apart from each other (input below, out-put above) and so cannot be mixed up.
- **Mounting and connection do not require any screwdriver**

### Diagrams

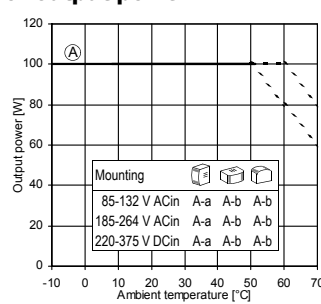
Output characteristic V<sub>out</sub>/I<sub>out</sub>  
(min.)



Efficiency  
(@ V<sub>out</sub> = 48V, typ.)



Derating  
of output power



Hold-up time with ACin  
(at V<sub>out</sub> = 48V, typ. + min.)

