

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

PULS

CE

UL US LISTED

CB
scheme



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

Efficiency, Reliability

Efficiency	typ. 91% (AC 230V, 48V / 2.1A) (see also diagram below)
Losses	typ. 10W (AC 230V, 48V / 2.1A)
MTBF (Reliability)	appr. 500.000 h acc. to Siemensnorm SN 29500 48V / 2.1A, AC 230V, T _{amb} = +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_{amb} = +60°C, on/off cycle)
- Functional test (100 %)

Construction, Mechanics, Installation

Robust plastic housing (US Patent No. D442, 9235), 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

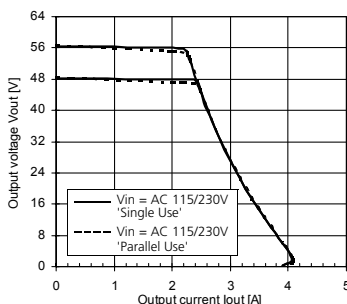
- flexible cable 0.3-2.5mm² (28-12 AWG)
- solid cable 0.3-4mm² (28-12 AWG)
Ferrules admissible
- Wire strip length 6mm (0.24in) recommended

Design details – for your advantage:

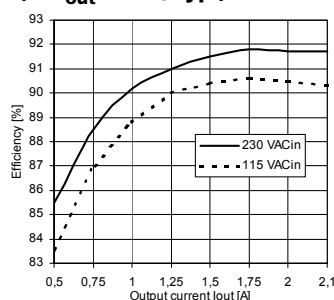
- All terminals are easy to reach as mounted on the front panel.
- Input and output are strictly apart from each other (input below, out-put above) and so cannot be mixed up.
- **Mounting and connection do not require any screwdriver**

Diagrams

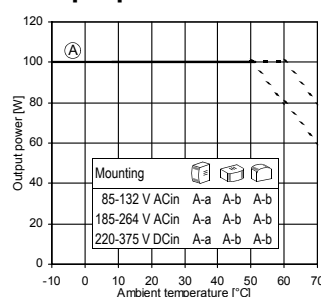
Output characteristic V_{out}/I_{out} (min.)



Efficiency (@ V_{out} = 48V, typ.)



Derating of output power



Hold-up time with ACin (at V_{out} = 48V, typ. + min.)

