

POWER SUPPLY 1-PHASE, 24 V DC MINILINE 2 SERIES



ML60.242 PULS PSU 60W 24-28VDC LOW TEMP

- Output current 2.5 A
- Up to 90.4% efficiency
- Working temp. -40 to +60°C
- ac and dc input voltage

PRODUCT DESCRIPTION

A compact size, light weight, simple mounting onto the DIN-rail and the utilization of only quality components are what makes the MiniLine power supplies so easy to use and install within seconds.

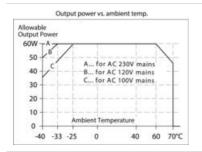
A rugged electrical and mechanical design as well as a high immunity against electrical disturbances on the mains provides reliable output power. This offers superior protection for equipment which is connected to the public mains network or is exposed to a critical industrial environment.

The specialty of the ML60.242 is the electronic inrush current limitation and the suitability for very low ambient temperatures. The unit is fully specified down to -40°C.

The supplementary MiniLine decoupling diode module MLY10.241 allows building of redundant systems or to protect against back-feeding voltages.

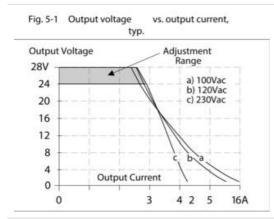
Operating temperature is the same as the ambient temperature and the air temperature is defined as 2 cm below the unit.

Output power vs ambient temperature



Operating temperature is the same as the ambient temperature and the air temperature is defined as 2 cm below the unit.

Output characteristic



SPECIFICATIONS

| Input voltage range | Wide-range |
|--|--|
| Number of phases | 1 |
| Input voltage AC | 100-240 V |
| Input voltage ac min | 85 V AC |
| Input voltage ac max | 264 V AC |
| Input voltage DC | 110-300 V |
| Input voltage dc min | 88 V DC |
| Input voltage dc max | 375 V DC |
| Inrush current at 120 V ac typical | 6 A |
| Inrush current at 230 V ac typical | 6 A |
| Power Factor at 120 V AC, full load. Typical | 0,54 |
| Power Factor at 230 V AC, full load. Typical | 0,44 |
| Supply Frequency | 50-60 ±6 % |
| | |
| Power Consumption At 120 V AC | 1,05 A |
| | |
| Power Consumption At 120 V AC | 1,05 A |
| Power Consumption At 120 V AC Power Consumption At 230 V AC | 1,05 A 0,66 A |
| Power Consumption At 120 V AC Power Consumption At 230 V AC | 1,05 A 0,66 A |
| Power Consumption At 120 V AC Power Consumption At 230 V AC Type Power Supply | 1,05 A 0,66 A AC-DC |
| Power Consumption At 120 V AC Power Consumption At 230 V AC Type Power Supply Output voltage | 1,05 A 0,66 A AC-DC 24 V DC |
| Power Consumption At 120 V AC Power Consumption At 230 V AC Type Power Supply Output voltage Output voltage min | 1,05 A 0,66 A AC-DC 24 V DC 24 V DC |
| Power Consumption At 120 V AC Power Consumption At 230 V AC Type Power Supply Output voltage Output voltage min Output voltage max | 1,05 A 0,66 A AC-DC 24 V DC 24 V DC 28 V DC |
| Power Consumption At 120 V AC Power Consumption At 230 V AC Type Power Supply Output voltage Output voltage min Output voltage max Output Current | 1,05 A 0,66 A AC-DC 24 V DC 24 V DC 28 V DC 28 V DC |
| Power Consumption At 120 V AC Power Consumption At 230 V AC Type Power Supply Output voltage Output voltage min Output voltage max Output Current Effect | 1,05 A 0,66 A AC-DC 24 V DC 24 V DC 28 V DC 28 V DC 2,5 A 60 W |
| Power Consumption At 120 V AC Power Consumption At 230 V AC Type Power Supply Output voltage Output voltage min Output voltage max Output Current Effect Power Reduction Of 60 To 70 ° C | 1,05 A 0,66 A AC-DC 24 ∨ DC 24 ∨ DC 28 ∨ DC 28 ∨ DC 2,5 A 60 W 1,5 W/°C |
| Power Consumption At 120 V ACPower Consumption At 230 V ACType Power SupplyOutput voltageOutput voltage minOutput voltage maxOutput CurrentEffectPower Reduction Of 60 To 70 ° CRipple. max | 1,05 A 0,66 A AC-DC 24 ∨ DC 24 ∨ DC 28 ∨ DC 28 ∨ DC 2,5 A 60 W 1,5 W/°C |
| Power Consumption At 120 V AC Power Consumption At 230 V AC Type Power Supply Output voltage Output voltage min Output voltage max Output Current Effect Power Reduction Of 60 To 70 ° C Ripple. max Temperature Range Without Derating From | 1,05 A 0,66 A AC-DC 24 V DC 24 V DC 28 V DC 28 V DC 2,5 A 60 W 1,5 W/°C 50 mV pp |
| Power Consumption At 120 V AC Power Consumption At 230 V AC Type Power Supply Output voltage Output voltage min Output voltage max Output Current Effect Power Reduction Of 60 To 70 ° C Ripple. max Temperature Range Without Derating From | 1,05 A 0,66 A AC-DC 24 V DC 24 V DC 28 V DC 28 V DC 2,5 A 60 W 1,5 W/°C 50 mV pp |

| Lifetime at 120 V ac, full load and +40 ° C | 66000 h |
|--|---------------------------------------|
| Lifetime at 230 V ac, full load and +40 $^\circ$ C | 90000 h |
| MTBF (IEC 61709) 230 V AC, Maximum Load, 40 ° C | 1866000 h |
| Width | 45 mm |
| Height | 75 mm |
| Depth | 91 mm |
| Weight | 0,25 kg |
| Clamp type | Screw on |
| Series | Miniline |
| Approvals | ABS, CB, CE, CSA, GL, NEC Class 2, UL |
| Material Protection | ABS plastic |
| Hold-up time at 120 V AC, full load. Typical. | 24 ms |
| Hold-up time at 230 V AC, full load. Typical. | 107 ms |
| IP Class | IP20 |

