Main Features

- High efficiency and extremely compact size
- Only 35mm width aluminum enclosure
- Active PFC
- Overload 125%
- High operating temperature with no derating

TECHNICAL DATA

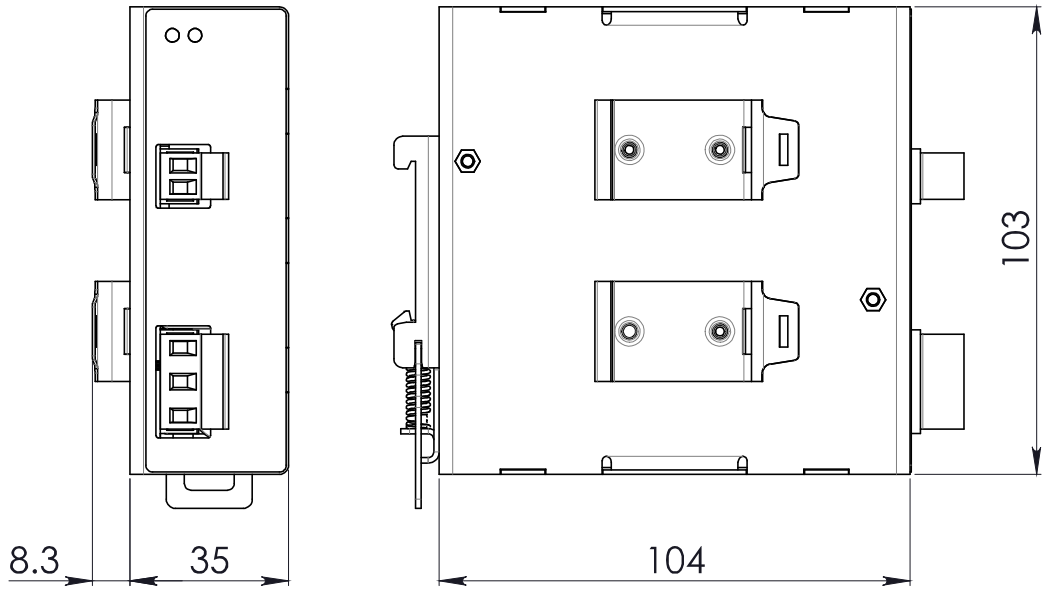
Model type	MEPS150-24
OUTPUT DATA	
Rated voltage	24Vdc
Adj. output voltage range	24Vdc Fixed
Continuous current	6.0A
Overload limit	7.5A
Load regulation	≤ 1%
Ripple & Noise[1]	≤ 50mVpp
Hold up time Vin = 120Vac Vin = 240Vac	 ≥ 20ms ≥ 30ms
Protections	▪ Overload, short circuit: with Constant current ▪ Thermal protection ▪ Input undervoltage lockout ▪ Output overvoltage
Output overvoltage protection	≥ 33Vdc
Status Signals	▪ **DC OK** - green LED ▪ **OVERLOAD** - red LED
Parallel connection	Possible for power or redundancy (with external ORing module)
INPUT DATA	
Input AC rated voltage Frequency	Nominal: 120…240Vac Range: 90…264Vac 47...63Hz
Input DC rated voltage	110...345Vdc
Input AC rated current Vin = 120Vac Vin = 240Vac	 1.5A 0.8A
Input DC rated current Vin = 110Vdc Vin = 345Vdc	 1.5A 0.6A
Power factor correction	Active / > 0.9
Inrush peak current[2] / I^2t	≤ 32A / 0.45A^2s
Touch (leakage) current	≤ 0.5mA
Internal protection fuse	Fuse 3.15AT (not user replaceable)
Recommended external protection	Fuse 4AT or MCB 4A C curve It is strongly recommended to provide external surge arresters (SPD) according to local regulations.
GENERAL DATA	
Efficiency	> 90.7%
Dissipated power	< 15W
Operating temperature[3]	- 35°C…+ 70°C
Derating	- 4.5W/°C over 50°C
Storage temperature	- 40°C...+ 80°C
Humidity	5…95% r.H. non condensing
Life time expectation	69'000h (7.9 years) at 25°C ambient full load
Overvoltage category Pollution degree	▪ EN50178 III ▪ IEC60664-1 2
Protection Class	▪ CLASS I
Input / output isolation	4.2kVdc
Input / ground isolation	2.2kVdc
Output / ground isolation	0.75kVdc
Safety Standards	▪ UL508 (pending) ▪ EN60950 (reference) ▪ EN50178 (reference)
EMC Emission	▪ EN55011 (CISPR11) Class B ▪ EN55022 (CISPR22) Class B ▪ EN61000-3-2 Class A
EMC Immunity	▪ EN61000-4-2 Level 3 ▪ EN61000-4-3 Level 3 ▪ EN61000-4-4 Level 4 ▪ EN61000-4-5 Level 4 ▪ EN61000-4-11 Level 2
Protection degree	▪ EN60529 IP20
Vibration sinuosoidal	▪ IEC 60068-2-6 (5-17.8Hz: ±1.6mm; 17.8-500Hz: 2g 2hours / axis (X,Y,Z)
Shock	▪ IEC 60068-2-27 (30g 6ms, 20g 11ms; 3 bumps / direction, 18 bumps total)

Connection terminals	2.5mm², screw type pluggable (24...12AWG)
Case material	Aluminum
Weight	0.45kg
Size (W x H x D)	35.0 x 103.0 x 104.0mm

1) Ripple and Noise are measured with 20MHz bandwidth, probe terminated with a 0.1µF MKP parallel capacitor.
2) Peak current measured after 0.2ms from main connection; 240Vac/50Hz; Ambient temperature at 25°C; Cold Start.
3) Start-up type tested: - 20°C, possible at nominal voltage with load deration.

Notes:
- Technical parameters are typical, measured in laboratory environment at 25°C and 240Vac / 50Hz, at nominal values, after minimum 5 minutes of operation.
- Power rating, losses, efficiency, ripple, thermal behaviour and start-up may change outside of the nominal rated input range. Contact factory for details.
- Data may change without prior notice in order to improve the product.

DIMENSIONS



CONNECTION

Input Connection:

Single phase:
- L = Line
- N = Neutral
- ⏚ = Earth ground

DC:
- L = + Positive DC
- N = - Negative DC
- ⏚ = Earth ground

Output Connection:

- + = Positive DC
- - = Negative DC