



General Description

The E3METER® 1300 series Power Distribution Units are built upon very solid 2U - 19" rackmount chassis.

Energy monitoring of all channels is handled by a E3METER® Intelligent Power Monitor IPM 1302 that can be swapped during operation (hot-plug). Indicators on the module frontplate summarize the power load of two individual power groups.

Two dedicated extension ports can be used to measure temperature and humidity through E3METER™ remote sensors.

Customization

These frames offer a high degree of flexibility as they are individually configurable on demand.

Metering circuit and frontplate are also available in other models for either single or dual (redundant) power distribution groups.

Features

IPM-1300-3D32 Chassis

- Fully passive cabling inside chassis (no electronics)
- 8 highest precision current transformers with 0.1% accuracy
- 2x 2 CEE 3PNE outlets (400V, 32A) backpanel (input cables, output connectors) customizable
- Optional mounting of up to 9 fuses on front plate on customer demand

IPM-1302 Monitoring Module

- Energy and power measurements (active, reactive, apparent, power factor)
- Voltage, current measurement of two 3-phase groups including neutral current
- 0.2% active power & energy accuracy from 10 W to full load
- Factory calibrated
- 2x extension ports for external temperature/humidity sensors
- Fast Ethernet (SNMP, HTTP, Telnet, NTP)
- Powerline Communication (optional) (requires E3METER® Data Concentrator)





AC Input

Nominal Input Voltage	400 V rms
Max. Input Current	32 A rms
Input Frequency	50 - 60 Hz
Input Cable/Plug	3m, CEE 3PNE 32A 6h

AC Output

Nominal Output Voltage	400 V rms
Max. Output Current	32 A rms
Output Connections	2x 2 CEE 3PNE 32A 6h
Integrated Filter/Switch	No

Physical

Width	440 mm (483mm 19" front)
Height	88.9 mm (2U)
Depth	330 mm (395mm with CEE 32A plugs)
Weight	7.5 kg (including module)

Communication

Ethernet 10/100 Mbit	HTTP, SNMP, Telnet, NTP
Serial	Console on COM 1
Powerline	Reliable narrowband PLC (optional) (requires E3METER® Data Concentrator)

IPM-1302 Measurements / Alarms

All values are measured per phase every second (real-time readout via SNMP possible).
Power and energy results are also aggregated per power group.

P	[W]		Real power
Q	[VAR]		Reactive power
S	[VA]		Apparent power
Ep	[kWh]		Real energy
Eq	[kVARh]		Reactive energy
Es	[kVAh]		Apparent energy
Urms	[V]		Phase voltage
Irms	[A]	Alarm	Phase current
Upk	[V]	Alarm	Peak line voltage
f	[Hz]	Alarm	Line frequency
PF	N/A		Power factor
Ti, T1, T2	[°C]	Alarm	Internal temperature and values from external temperature sensors
H1, H2	[%]		Humidity values from external sensors

