



PDU

POWER DISTRIBUTION UNIT

Multifunction Meter | Demand Controller | Import Export | Harmonics | Power Quality | Digital/Analog Input or Output | Dual Source

HIGH-END MULTIFUNCTION METER FOR COMPREHENSIVE ENERGY MANAGEMENT!

Features:

- Multi-channel data collection.
- Displays Basic, Power and Energy parameters.
- Optional Zigbee communication (Default RS 485).
- Space saving compact design for easy installation into existing panel boards.
- True RMS measurements.
- Simultaneous sampling of Volts & Amps.
- Accuracy class 1.0 IEC 61036 / CBIP 88 (0.5 option).
- User programmable password protection.
- Energy resetting @ 999999 KVAh × Multiplication factor.
- Optional Control Relay Unit for PDU 5150.

Applications:

- For remote reading and control, the PDU is supported by EInet Software, designed for remote setup and data viewing and analysis.
- Building Management System: With the open modbus protocol, the PDU can interface any system, such as building management, HMI etc.

Benefits:

- 18 months warranty.
- Ideal for apartments / commercial complexes billing and load pattern study on individual phase.
- Individual phase kWh measurement provides user flexibility of measuring 3 phase 3 channels or single phase 9 channels.
- Primary current can be independently configured making it ideal for any kind of industry or up-gradation.
- Standard communication Protocol: Modbus RTU.

Safety and Environmental Specification:

Safety: Designed to meet protection class III, pollution degree 2. Protection against shock by double insulation. Clearance and creepage meets as per UL 61010 safety standard.

Environment:

Operating temperature -10°C to +55°C (14°F to 131°F)
 Storage temperature -25°C to +70°C (-13°F to 158°F)
 Humidity 5% to 95% non condensing.
 Recommended wire gauge 12 to 14 SWG

Measures:

- Displays more than 25 parameters Basic, Power and Energy.
- Displays Basic : VLL, VLn, A (Average & Phasewise), F.
- Power: W, PF,VA (Total & Phasewise).
- Energy : Wh, LH, OLD Wh, OLD LH.
- OLD register to store the previously cleared Energy value & LH.

Note: Customization can be done for other parameters provided volume justify

Technical Specification:

Specification	Description
Accuracy:	Class 1 (Default) IEC 61036, IS 13779 CBIP 88, Class 0.5 (Option).
Sensing/ Measurement:	True RMS, 1 Sec update time; 4 Quadrant Power & Energy
Input Voltage:	4 Voltage inputs (VR, VY, VB, VN) Programmable 110 or 415V LL Nominal (Range 80 to 550V LL) Primary Programmable up to 999 kV. <i>Burden: 0.2VA Max. per phase</i>
Input Frequency:	45 - 65 Hz
Input Current:	Current inputs [AR, AY, AB], 3 Channels - Each channel is independently configurable. Primary Programmable up to 99 kA.
Aux-Supply (control power):	80 - 300V AC / DC <i>Burden: 5 VA Max</i>
Display resolution:	1 row, 6 digits.
CT PT Ratio Max:	2000 MVA Programmable.
Communication:	Rs485 interface. Industry standard Modbus RTU protocol. <i>Baud rate: 2400 bps to 19200 bps. (Preferred 9600 bps)</i> <i>Isolation : 2000 volts AC isolation for 1 minute between communication and other circuits.</i>
Weight:	Unpacked: 300 gms, Packed: 400 gms
Mechanical Specification:	Dimension Bezel PDU 5110 : 96 × 96 mm (Depth 50mm behind bezel behind panel mounting), 90 × 90 mm for Din Rail.

Note: Additional error of 0.05% of full scale, for meter input current below 500mA

Current Transformers

Hang on CT-100A



Inner dia. 16mm

Split Core CT-100A



Inner dia. 19mm Sq.

Split Core CT-400A



Inner dia. 31mm Sq.

Split Core CT-1000A



Inner dia. 50mm Sq.