

# DMTI - (PM) X96-5J

Smart Multifunction Power Analyser

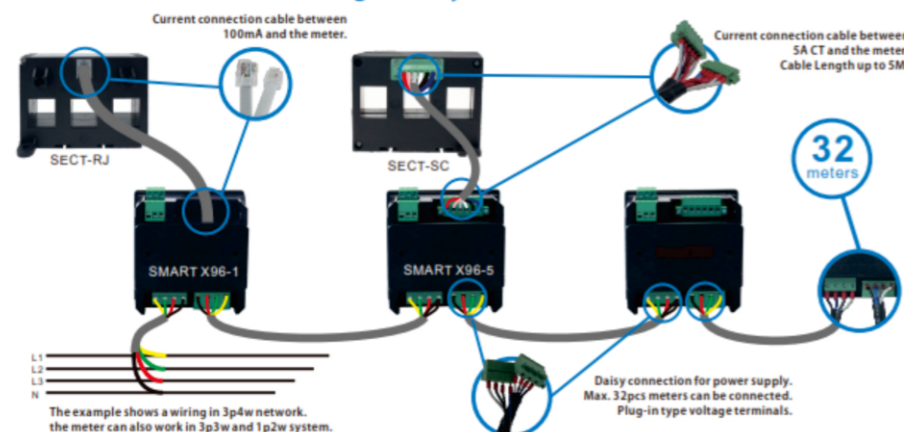
## Application

**DIGITAL METER TECHNOLOGY INTERNATIONAL**, Ltd produces **DMTI - (PM) X96-5J** digital power meter, is a top new-generation intelligent panel meter with built-in interfaces provides RS485, Modbus RTU and Ethernet TCP/IP communication. Digital input and outputs are provided for external signal counting and external device control. 30 type's parameters can be set for alarm. This series is widely used not only in the electricity transmission and power distribution system, but also in the power consumption measurement and analysis in LV/MV Intelligent power grid. The Unit can be used as a gateway for Modbus RTU/TCP. The (PM) X96-5J measures and displays the characteristics of 1P2W, 3P4W and 3P3W supplies, including voltage, frequency, current, power and active and reactive energy, imported or exported, Harmonic, Power factor, Max. Demand etc. Energy is measured in terms of kWh, kVAh and kVAh. Maximum demand current can be measured over preset periods of up to 60minutes. The (PM) X96-5J can be configured to work with a wide range of CTs and PTs, giving the unit a wide range of operation.

## Standard Features:

- ✓ Multi - parameter Measurements
- ✓ Up to 63 THD and IHD
- ✓ RS485 Modbus RTU
- ✓ Ethernet TCP Gateway
- ✓ Multi - tariffs
- ✓ Digital Input / Output
- ✓ Accuracy Class 0.5s / 0.2s
- ✓ Bar Graph for Power Indication
- ✓ Backlit LCD Display for Full Viewing Angles
- ✓ Push - in Installation and Plug- in Connection

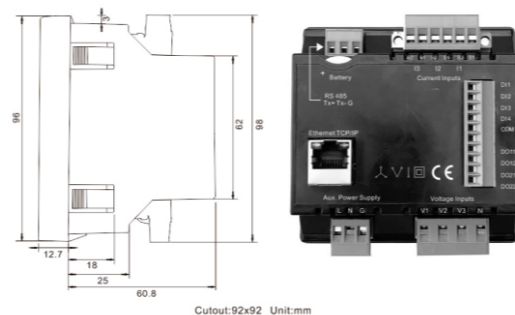
## "Plug-in Play Solution"



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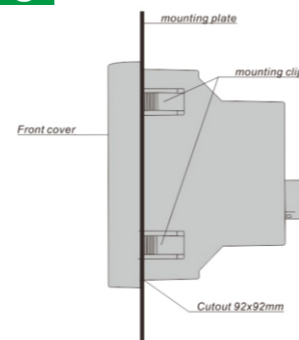


## Dimensions



96mm (H) x 98mm (W) x 60.8mm (D)

## Mounting



## Battery Replacement



## Electrical Characteristics:

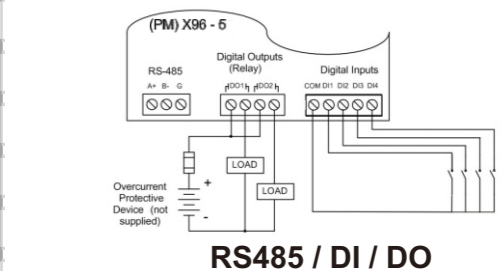
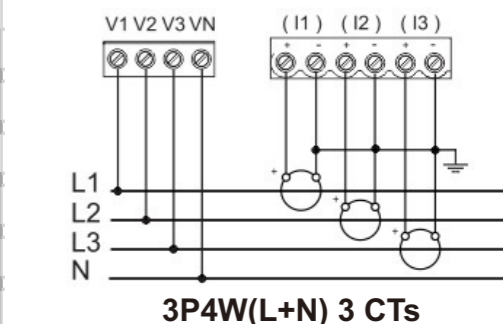
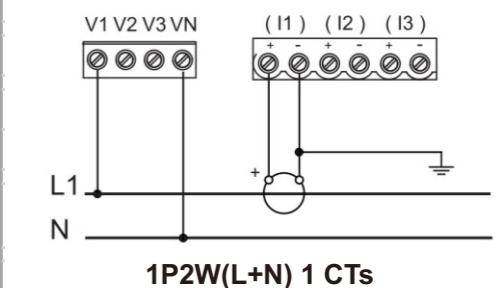
Type of measurement	RMS including harmonics on 3phase AC system (3P, 3P+N)128 samples per cycle
<b>Input-Voltage</b>	
Input-Voltage	100~500000V ac
Un	230 V L-N
Measured Voltage with Over-range &Crest Factor	100 to 480VAC L-L 100 to 276Vac L-N
Permanent Overload	490V L-L 280V L-N
Impedance	1M O
Frequency Range	45~66Hz
<b>Input- Current</b>	
CT Ratings	Primary: 1~9999A Secondary: 1A / 5A
Measured current with Over-range & Crest Factor	5mA~6A
Withstand	Continuous 8A 120A for 0.5Seconds
Frequency Range	45~66Hz
Burden	<0.036VA at 6A
<b>Auxiliary Power Supply</b>	
Operating Range	65~480V AC / 80~660V DC
Power Consumption	< 7VA/3.5W
Frequency	45 to 65 Hz
<b>Digital output</b>	
Number/Type	2 - electromagnetic relay
Output Frequency	1 Hz maximum
Switching Current	250VAC at 3.0 Amps,100kcycles
Isolation	2.5kV AC for 1min
<b>Digital input</b>	
Number	4
Input Resistance	10kO
Maximum Frequency	1kHz
Response Time	10 milliseconds
Isolation	2.5 KVAC for 1min

DMTI (PM) X96-5J Specification

## Measurement accuracy:

Power	IEC 61557-12 Class 0.5
Active Energy	IEC 62053-22 Class 0.5S/0.2S IEC 61557-12 Class 0.5
Reactive Energy	IEC62053-23 Class 2 IEC61557-12 Class 2
Frequency	±0.1%
Current	±0.2%
Voltage	±0.2%
Power Factor	±0.01
Harmonic Distortion	2

## Wiring Diagram:



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