

# ME513-3

## SMART STS DIN RAIL METER.



The ME513-3 is the latest version of Din-Rail smart STS Prepayment Energy meter customized to the international prepaid AMI market supporting local/remote software upgrade.

This series adopts the current international standard of AMI communication protocol DLMS/COSEM, the meter is designed to meet the latest standards and requirements of energy utilities, providing a strong foundation for Smart Grid initiatives.



## FEATURES

- Bi-directional metering for import/export active energy, and 4 quadrants reactive energy.
- Metering instantaneous voltage and current, active/reactive/apparent power, power factor and frequency, for total and per phase value.
- The minimum cycle of the unit for electric energy direction judgment is one second.
- The minimum unit of energy metering in memory is 1mWh, 1mVARh, and 1mVAh.
- The minimum unit of energy metering of output (communication/display) is 1Wh, 1VARh, and 1Vah, the data refreshes every second.
- Support of up to 8 tariffs. Time of Use (TOU) of total import/export active energy, reactive energy.

## KEY BENEFITS

- The meter supports five payment modes: Prepayment energy, pre-paid gradient, pre-paid TOU, post-paid gradient and post-paid TOU.
- Firmware can be updated by means of optical port, RS485 port and remote communication.
- Load profile with configurable interval and capture objects.
- Event logs: The meter is capable of recording events as it captures the occurrence of configurable events with timestamp.
- Built-in smart Communication interface.
- Compact Design.

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#### TECHNICAL SPECIFICATIONS

<b>Voltage</b>	220-240V
<b>Operating voltage range</b>	0.5 Un - 1.13 Un
<b>Current</b>	5(80) A
<b>Frequency</b>	50Hz±5%
<b>Accuracy class</b>	Active Class 1
<b>Conformity</b>	IEC62052-11, IEC62053-21, IEC62053-22, IEC62053-23, IEC62055-41, IEC62056-46, IEC62056-53, IEC62056-61, IEC62056-62, IEC62053-21
<b>Operating temperature range</b>	-25 °C-+55 °C
<b>Transportation and storage temperature</b>	-40 °C-+70 °C
<b>Relative humidity</b>	95%, No coagulate frost
<b>Frequency range</b>	50Hz±5%, 60Hz±5%
<b>Power consumption of voltage circuit</b>	<1.5W, 6VA
<b>Power consumption of current circuit</b>	<1VA
<b>Starting current</b>	lb 0.4
<b>Creeping condition</b>	no current, 115%Un
<b>Impulse voltage</b>	6kV
<b>AC voltage</b>	4kV
<b>Electric rapid transient pulse group</b>	4kV
<b>Clock accuracy</b>	0.5s/day
<b>Display</b>	Split CIU, with PLC or RF communication to MCU
<b>Power supply</b>	Single phase power supply, switching power technology, low voltage starts.
<b>CIU communication</b>	MCU and CIU communication through PLC or RF
<b>Uplink Built-in communication interfaces</b>	RS485, G3-PLC or RF complies with DLMS/COSEM protocol

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