



96 x 96mm

FEATURES

- 3Phase True RMS (Voltage, Current, Frequency)
- 3Phase Power (Active, Reactive, Apparent),
- 3Phase Total Energy (Active, Reactive, Apparent)
- Programmable CT ,PT (Primary / Secondary)
- Modbus RTU Communication (RS485)
- Pulse Output

Display Specifications

Type	: 1 rows, LCD with Backlight
Digits	: 1 (12 digits for energy display) & (3 digit for each parameter)

Input Specifications

Electrical Connection Input	: 3Phase-4Wire, 3Phase-3Wire, 1Phase-2Wire
Voltage Range	: 100 to 240V AC (L-N) 173 to 415V AC (L-L)
Frequency Display	: 45 to 65Hz
Scrolling	: Automatic / Manual
Power Consumption	: 8VA max
Display Reset	: Programmable (For energy)
Resolution	: For energy : 0.1k,1k (depending upon CT rating)
Accuracy	: Amp: 0.5% Voltage (L-N & L-L): 0.5% Hz: 0.2% Active power (kW) : 1% Reactive power (kVAR) : 1% Apparent power (kVA) : 1% Active Energy (kWh) : 1% Reactive Energy (kVArh) : 2% Apparent Energy (kVAh) : ± 1%
Memory Retention	: 10 years (For energy)
Measuring Parameters	: Power Factor (Individual / Average), Active, Reactive & Apparent Power (Individual / Total), Energy (kwh, kVAh, kVArh)
DG Input	: 230V AC (For DG models only)

Output Specifications

Pulse Output	: Voltage Range : External 24V DC max : Current Capacity : 100mA max
Communication Interface and Protocol	: Pulse Width : 500ms ± 50ms RS485 and MODBUS RTU & DG
Communication Address	: 1 to 255
Transmission Mode	: Half duplex
Transmission Distance	: 500 meter maximum
Transmission Speed/BAUD Rate	: 9600 (in bps)
Parity	: None,
Stop Bits	: 1
Response Time	: 100ms (max)

Auxiliary Supply Specifications

Supply Voltage	: 230V AC(± 10%), 50 / 60 Hz
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Settable Parameters

CT Primary	: 5A to 5000A AC (Programmable for any value)
CT Secondary	: 5A or 1A AC (Factory Settable)
PT Primary	: 100V to 500kV AC (Programmable for any value)
PT Secondary	: 173V to 415V AC (Programmable for any value)

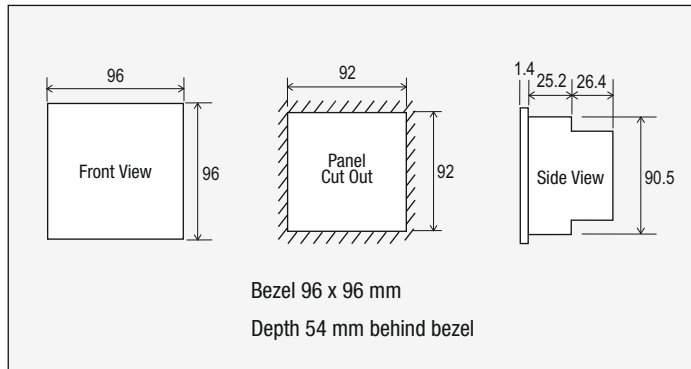
Environmental Specifications

Temperature	: Operating Temperature : 0° to 50°C : Storage Temperature : -20° to 75°C
Humidity	: Up to 85% RH

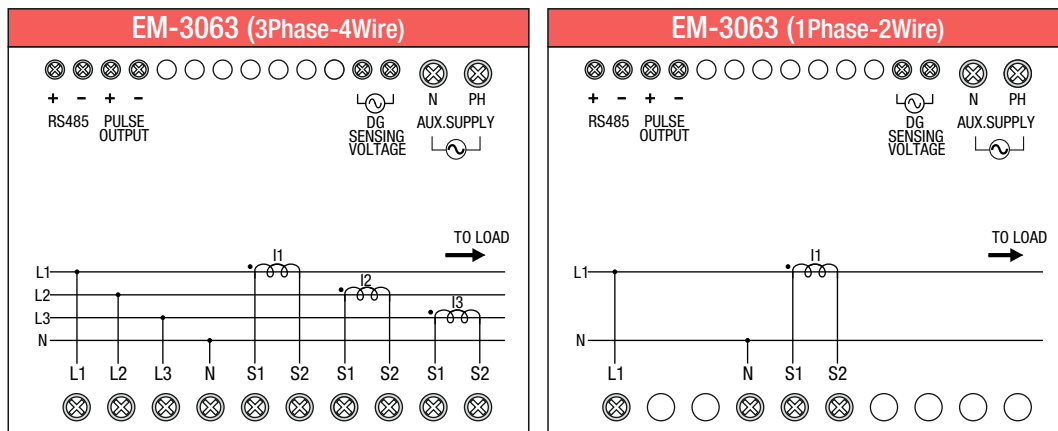
Mechanical Specifications

Mounting	: Panel Mount
Size	: 96X96mm
Weight	: 230gms
Screw Tightening Torque	: 0.5 NM

Mechanical Specifications



Connection Diagram



Ordering Information

PRODUCT NAME	DESCRIPTIONS
EM6063-1PH	ENERGY METER 1 PHASE 96X96
EM6063-1PH-RS	ENERGY METER 1 PHASE 96X96 RS485
EM6063-1PH-DG	ENERGY METER 1 PHASE 96X96 DG
EM6063-1PH-RS-DG	ENERGY METER 1 PHASE 96X96 RS485-DG
EM6063-3PH	ENERGY METER 3 PHASE 96X96
EM6063-3PH-RS	ENERGY METER 3 PHASE 96X96 RS485
EM6063-3PH-DG	ENERGY METER 3 PHASE 96X96 DG
EM6063-3PH-RS-DG	ENERGY METER 3 PHASE 96X96 RS485-DG



96 x 96mm

FEATURES

- 1 Row, 7 Segments LED Display
- Programmable CT, PT (Primary / Secondary)
- Modbus RTU Communication (RS485)
- Pulse Output

Display Specifications

Type	: 1 Row, 7 Segments LED Display
Digits	: 1 Row of 6 digits for energy display

Input Specifications

Electrical Connection Input	: 3Phase-4Wire, 1Phase-2Wire
Voltage Range	: 11-300V AC(L-N) 19-520V AC(L-L)
Frequency Display	: 45 to 65Hz
Scrolling	: -----
Power Consumption	: <8VA max
Display Reset	: Programmable (For energy)
Resolution	: For energy : 0.01k, 0.1k, 1k (depending upon CT rating)
Accuracy	: Energy Active 1%
Memory Retention	: 10 years (For energy)
Measuring Parameters	: Energy kWh / MWh
DG Input	: 230V AC (For DG models only)

Output Specifications

Pulse Output	: Voltage Range : External 24V DC max : Current Capacity : 100mA max
Communication Interface and Protocol	: Pulse Width : 500ms ± 50msec RS485 and MODBUS RTU
Communication Address	: 1 to 255
Transmission Mode	: Half duplex
Transmission Distance	: 500 meter maximum
Transmission Speed	: 9600 (in bps)
Parity	: None
Stop Bits	: 1
Response Time	: 100ms (max and independent of baud rate)

Auxiliary Supply Specifications

Supply Voltage	: 230V AC(± 10%), 50 / 60 Hz
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Settable Parameters

CT Primary	: 5A to 5000A AC (Programmable for any value)
CT Secondary	: 5A or 1A AC (Factory Settable)
PT Primary	: 100V to 500kV AC (Programmable for any value)
PT Secondary	: 173V to 415V AC (Programmable for any value)

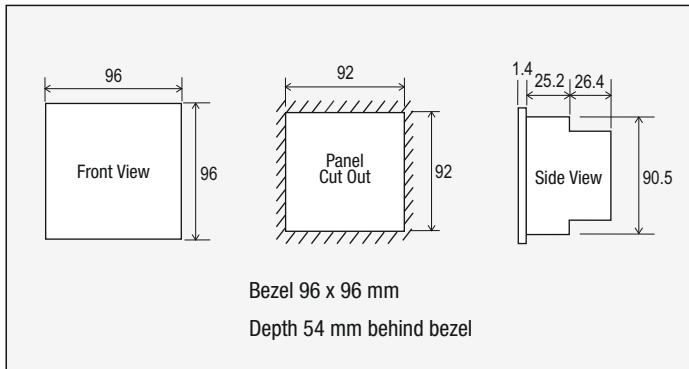
Environmental Specifications

Temperature	: Operating Temperature : -10 ⁰ to 55 ⁰ C : Storage Temperature : -25 ⁰ to 70 ⁰ C
Humidity	: 5% to 95% Non condensing

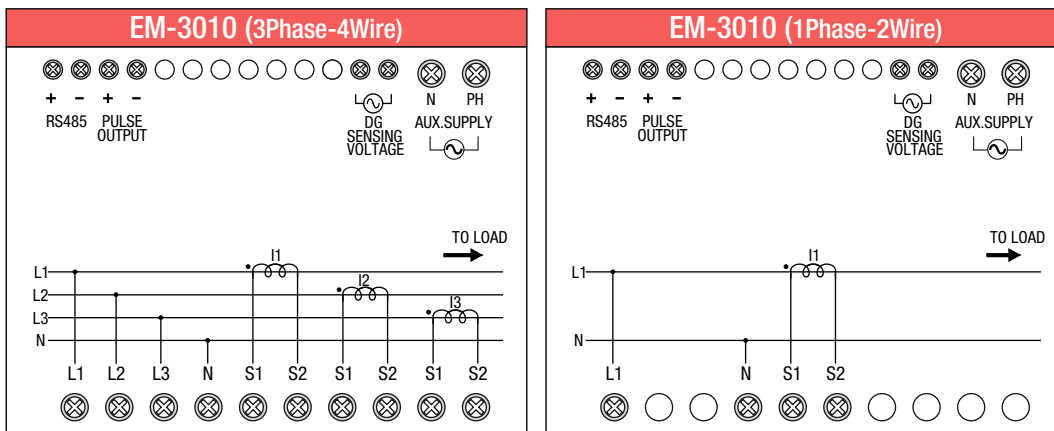
Mechanical Specifications

Mounting	: Panel Mount
Size	: 96X96mm
Weight	: 300gms
Screw Tightening Torque	: 0.5 NM

Mechanical Specifications



Connection Diagram



Ordering Information

PRODUCT NAME	DESCRIPTIONS
EM3010-1PH	ENERGY METER 1 PHASE 96X96
EM3010-1PH-RS	ENERGY METER 1 PHASE 96X96 RS485
EM3010-1PH-DG	ENERGY METER 1 PHASE 96X96 DG
EM3010-1PH-RS-DG	ENERGY METER 1 PHASE 96X96 RS485-DG
EM3010-3PH	ENERGY METER 3 PHASE 96X96
EM3010-3PH-RS	ENERGY METER 3 PHASE 96X96 RS485
EM3010-3PH-DG	ENERGY METER 3 PHASE 96X96 DG
EM3010-3PH-RS-DG	ENERGY METER 3 PHASE 96X96 RS485-DG



96 x 96mm

FEATURES

- 1 Row, 7 Segments LED Display
- 3Phase True RMS (Voltage, Current, Frequency)
- 3Phase Power (Active, Reactive, Apparent),
- 3Phase Total Energy (Active, Apparent)
- Programmable CT, PT (Primary / Secondary)
- Modbus RTU Communication (RS485)
- Pulse Output

Display Specifications

Type	: 1 Row, 7 Segments LED Display
Digits	: 1 Row (6 digits for energy display) & (4 digit for each parameter)

Input Specifications

Electrical Connection Input	: 3Phase-4Wire, 1Phase-2Wire
Voltage Range	: 11-300V AC(L-N) 19-520V AC(L-L)
Frequency Display	: 45 to 65Hz
Scrolling	: Automatic / Manual
Power Consumption	: <8VA max
Display Reset	: Programmable (For energy)
Resolution	: For energy : 0.01k, 0.1k, 1k (depending upon CT rating)
Accuracy	: Amp: 0.5% Voltage (L-N & L-L): 0.5% Hz: 0.2% Active power (kW) : 1% Reactive power (kVAR) : 1% Apparent power (kVA) : 1% Active Energy (kWh) : 1% Apparent Energy (kVAh) : ± 1%
Memory Retention	: 10 years (For energy)
Measuring Parameters	: Power Factor (Individual / Average), Active, Reactive & Apparent Power (Individual / Total), Energy (kwh, kVAh, V, A, Hz)
DG Input	: 230V AC (For DG models only)

Output Specifications

Pulse Output	: Voltage Range : External 24V DC max : Current Capacity : 100mA max
Communication Interface and Protocol	: Pulse Width : 500ms ± 50ms RS485 and MODBUS RTU & DG
Communication Address	: 1 to 255
Transmission Mode	: Half duplex
Transmission Distance	: 500 meter maximum
Transmission Speed/BAUD Rate	: 9600 (in bps)
Parity	: None
Stop Bits	: 1
Response Time	: 100ms (max)

Auxiliary Supply Specifications

Supply Voltage	: 230V AC(± 10%), 50 / 60 Hz
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Settable Parameters

CT Primary	: 5A to 5000A AC (Programmable for any value)
CT Secondary	: 5A or 1A AC (Factory Settable)
PT Primary	: 100V to 500kV AC (Programmable for any value)
PT Secondary	: 173V to 415V AC (Programmable for any value)

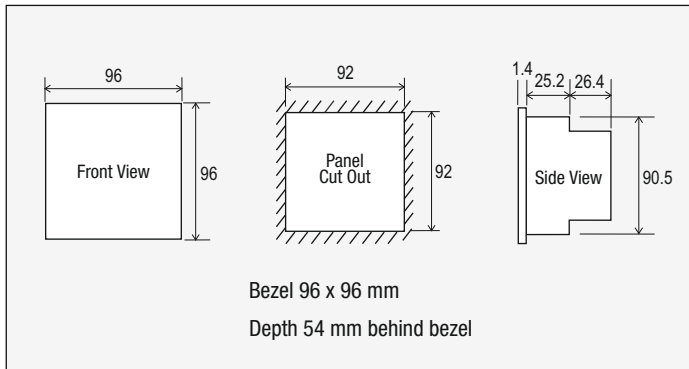
Environmental Specifications

Temperature	: Operating Temperature : -10° to 55°C : Storage Temperature : -25° to 70°C
Humidity	: 5% to 95% Non condensing

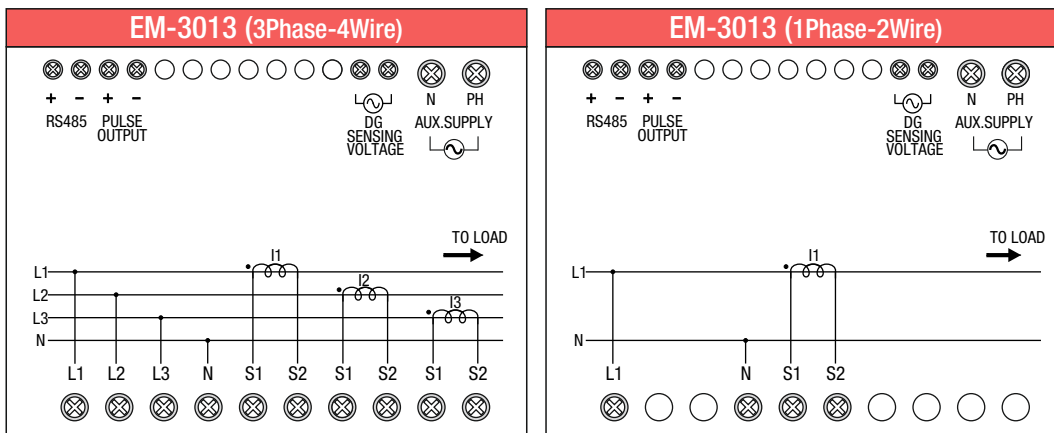
Mechanical Specifications

Mounting	: Panel Mount
Size	: 96X96mm
Weight	: 230gms
Screw Tightening Torque	: 0.5 NM

Mechanical Specifications



Connection Diagram



Ordering Information

PRODUCT NAME	DESCRIPTIONS
EM6013-1PH	ENERGY METER 1 PHASE 96X96
EM6013-1PH-RS	ENERGY METER 1 PHASE 96X96 RS485
EM6013-1PH-DG	ENERGY METER 1 PHASE 96X96 DG
EM6013-1PH-RS-DG	ENERGY METER 1 PHASE 96X96 RS485-DG
EM6013-3PH	ENERGY METER 3 PHASE 96X96
EM6013-3PH-RS	ENERGY METER 3 PHASE 96X96 RS485
EM6013-3PH-DG	ENERGY METER 3 PHASE 96X96 DG
EM6013-3PH-RS-DG	ENERGY METER 3 PHASE 96X96 RS485-DG



96 x 96mm

FEATURES

- 12 Digit energy (kWh)
- Programmable CT, PT (Primary / Secondary)
- Modbus RTU Communication (RS485)
- Pulse Output

Display Specifications

Type	: 1 rows, LCD with Backlight
Digits	: 12 digits for energy display

Input Specifications

Electrical Connection Input	: 3Phase-4Wire, 3Phase-3Wire, 1Phase-2Wire
Voltage Range	: 100 to 240V AC (L-N) 173 to 415V AC (L-L)
Frequency Display	: 45 to 65Hz
Scrolling	: Auto / Manual
Power Consumption	: 8VA max
Display Reset	: Programmable (For energy)
Resolution	: For energy : 0.1k, 1k (depending upon CT rating)
Accuracy	: Energy Active 1%
Memory Retention	: 10 years (For energy)
Measuring Parameters	: Energy kWh
DG Input	: 230V AC (For DG models only)

Output Specifications

Pulse Output	: Voltage Range : External 24V DC max : Current Capacity : 100mA max
Communication Interface and Protocol	: Pulse Width : 500ms ± 50msec RS485 and MODBUS RTU
Communication Address	: 1 to 255
Transmission Mode	: Half duplex
Transmission Distance	: 500 meter maximum
Transmission Speed	: 9600 (in bps)
Parity	: None,
Stop Bits	: 1
Response Time	: 100ms (max and independent of baud rate)

Auxiliary Supply Specifications

Supply Voltage	: 230V AC (± 10%), 50 / 60 Hz
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Settable Parameters

CT Primary	: 5A to 5000A AC (Programmable for any value)
CT Secondary	: 5A or 1A AC (Factory Settable)
PT Primary	: 100V to 500kV AC (Programmable for any value)
PT Secondary	: 173V to 415V AC (Programmable for any value)

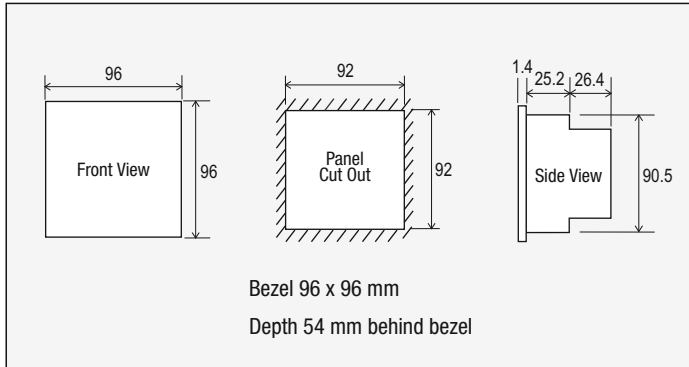
Environmental Specifications

Temperature	: Operating Temperature : 0° to 50°C : Storage Temperature : -20° to 75°C
Humidity	: Up to 85% RH

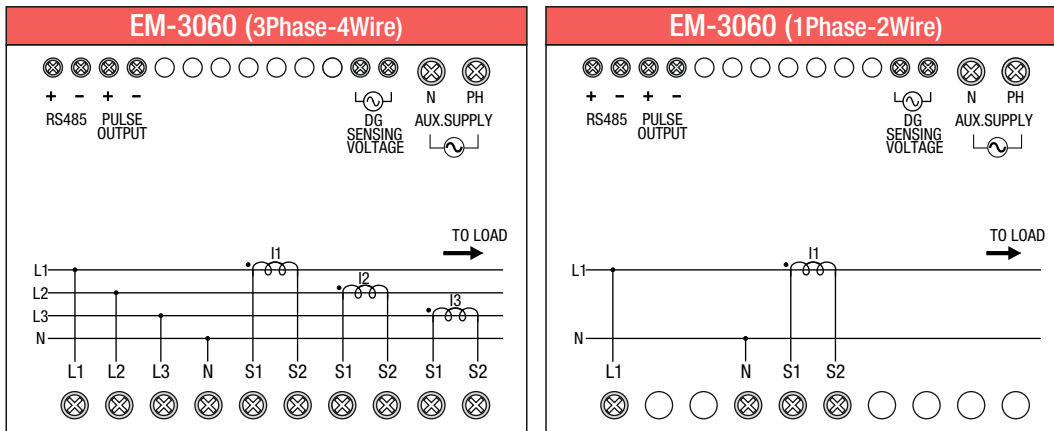
Mechanical Specifications

Mounting	: Panel Mount
Size	: 96X96mm
Weight	: 300gms
Screw Tightening Torque	: 0.5 NM

Mechanical Specifications



Connection Diagram



Ordering Information

PRODUCT NAME	DESCRIPTIONS
EM3060-1PH	ENERGY METER 1 PHASE 96X96
EM3060-1PH-RS	ENERGY METER 1 PHASE 96X96 RS485
EM3060-1PH-DG	ENERGY METER 1 PHASE 96X96 DG
EM3060-1PH-RS-DG	ENERGY METER 1 PHASE 96X96 RS485-DG
EM3060-3PH	ENERGY METER 3 PHASE 96X96
EM3060-3PH-RS	ENERGY METER 3 PHASE 96X96 RS485
EM3060-3PH-DG	ENERGY METER 3 PHASE 96X96 DG
EM3060-3PH-RS-DG	ENERGY METER 3 PHASE 96X96 RS485-DG