

# PROJOY

## PEEM-S1\S2\T2

# PROJOY

electric

— Switch To Safety! —



# PEEM Series

## PEEM-S1\S2\T2



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electric

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### Features

- Provides real-time data for balancing electric loads.
- Voltage, current, frequency, active power, reactive power, etc. can be easily read from the LCD screen.
- Bi-directional measuring.
- Standard DIN rail 35mm.
- With RS485 interface and ModBus/RTU communication protocol for networking.
- Stored data is safe at power loss.

### Application Scenario

- 1 Accurate bi-directional measuring of PV system power generation.
- 2 Measures the consumption and feed-in power.
- 3 Communicates through RS485 with on-grid inverter or energy storage inverter to realize anti-PID.
- 4 Communicates with AC coupled inverter or energy storage inverter to realize the logical control of charge and discharge.



## Funtions

By sampling, measuring and monitoring the electric energy parameters, and communicating with the inverter, the functions of anti-PID, regulation of power generation, battery charging and discharging, etc. are realized. It adopts standard DIN35mm rail type installation, which has the advantages of small size, convenient installation and easy network formation. It has two-way metering function and is widely used in new energy generation systems such as PV grid-connected systems, micro inverter systems, energy storage systems and AC-coupled systems.



## Select Code

PE

PROJOY  
Electric

EM

Electricity  
Meter

S/T

Single Phase/  
Three Phase

※

Current rating  
1: 60A  
2: 80A

Current model:

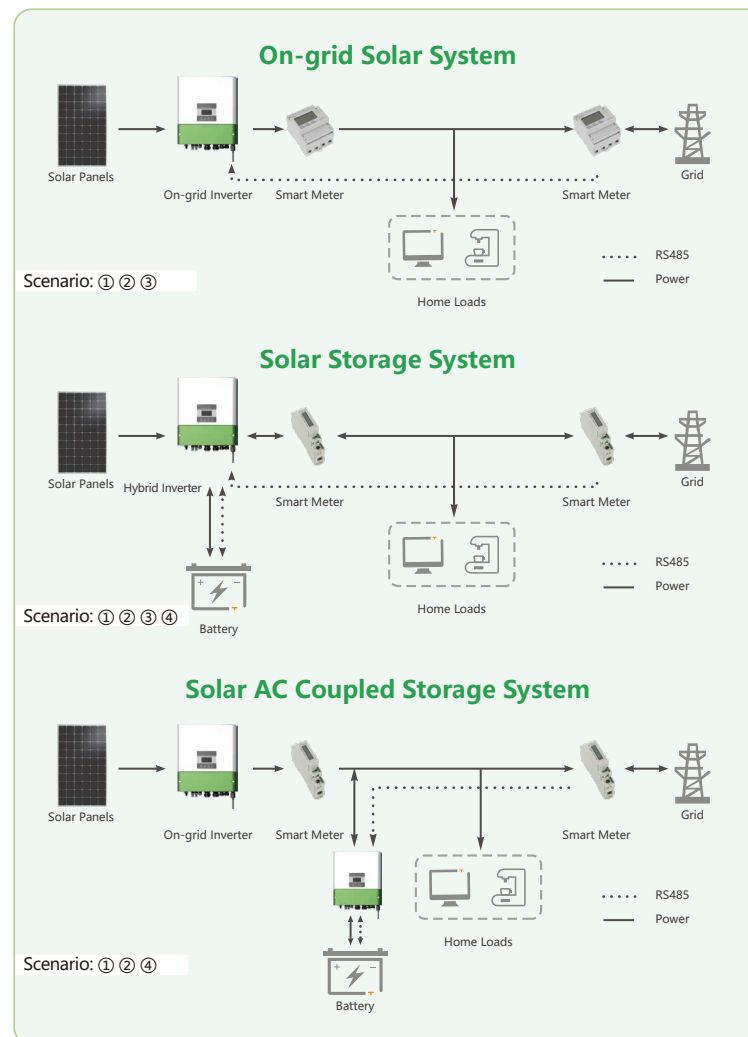
PEEM-S1

PEEM-S2

PEEM-T2



## Scenario Diagram



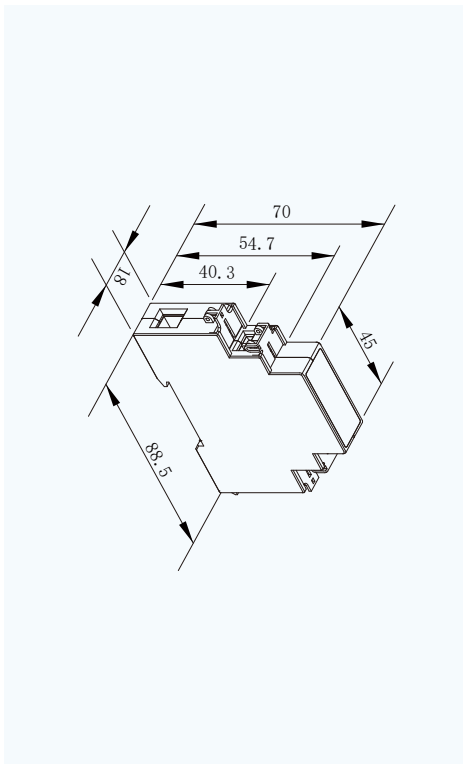
# Specifications

| Standards: IEC62053-21、IEC62053-22 |                    | PEEM-S1                              | PEEM-S2                              | PEEM-T2                              |
|------------------------------------|--------------------|--------------------------------------|--------------------------------------|--------------------------------------|
| Electric parameter                 | Current type       | Single phase load, Direct connection | Single phase load, Direct connection | three phase load, Direct connection  |
|                                    | Nominal voltage    | 220V                                 | 220V                                 | 3×100V、3×380V、3×57.7/100V、3×220/380V |
|                                    | Voltage range      | 56-260VLN AC                         | 56-260VLN AC                         | 56-260VLN AC                         |
|                                    | Current range      | 10 (60) A                            | 10 (80) A                            | 3×10(80)A                            |
|                                    | Frequency          | 45HZ-65HZ                            | 45HZ-65HZ                            | 45HZ-65HZ                            |
|                                    | Energies           | 000000.00~999999.99kWh               | 000000.00~999999.99kWh               | 000000.00~999999.99kWh               |
| Accuracy                           | Voltage            | ±1%                                  | ±1%                                  | ±0.2%                                |
|                                    | Current            | ±1%                                  | ±1%                                  | ±0.2%                                |
|                                    | Active             | Class 1                              | Class 1                              | Class 0.5                            |
|                                    | Reactive           | Class 2                              | Class 2                              | Class 2                              |
|                                    | Power factor       | ±1%                                  | ±1%                                  | ±0.5%                                |
| Energy consumption                 |                    | 4/10VA                               | 4/10VA                               | 4/10VA                               |
| Display and touch key-pad          | Type               | LCD, 8-dugit                         | LCD, 8-dugit                         | LCD, 8-dugit                         |
|                                    | Read-out           | Energy: 8 dugit                      | Energy: 8 dugit                      | Energy: 8 dugit                      |
| Communication mode                 |                    | N/A                                  | Pulse constant                       | Pulse constant                       |
|                                    |                    | RS485 Modbus port                    |                                      | RS485 Modbus port、DL/T645            |
| Operating temperature              |                    | -25°C~55°C                           | -25°C~55°C                           | -25°C~55°C                           |
| Storage temperature                |                    | -40°C~70°C                           | -40°C~70°C                           | -40°C~70°C                           |
| Humidity                           |                    | 0-95 %                               | 0-95 %                               | 0-95 %                               |
| Elevation                          |                    | <2000m                               | <2000m                               | <2000m                               |
| Housing                            | Dimensions (W*D*H) | 18*96*70mm                           | 36*90*65mm                           | 72*90*65mm                           |
|                                    | Material           | PC+ABS (960°C)                       | PC+ABS (960°C)                       | PC+ABS (960°C)                       |
|                                    | Sealing covers     | Polycarbonate (PC)                   | Polycarbonate (PC)                   | Polycarbonate (PC)                   |
| Mounting                           |                    | DIN35mm rall                         |                                      | DIN35mm rall                         |
| Protection degree                  |                    | IP20                                 | IP20                                 | IP20                                 |
| weight (g)                         |                    | 81                                   | 135                                  | 319                                  |

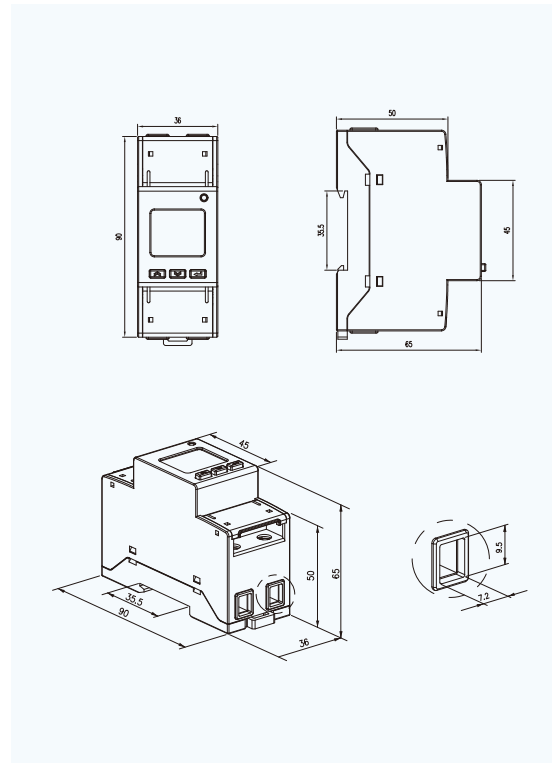
## Dimension

## PEEM Series

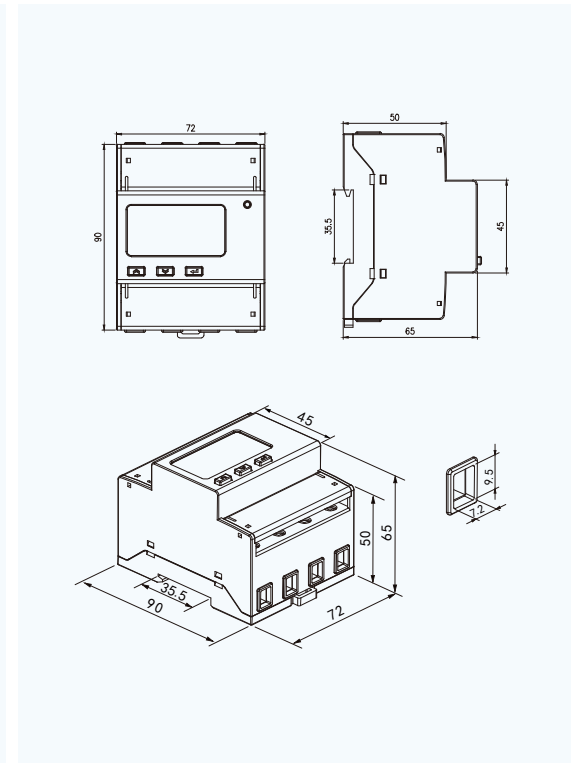
PPEM-S1



PPEM-S2



PPEM-T2





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