

Single Phase Smart Energy Meter with Interchangeable Module

This single-phase smart energy meter measures both import and export active energy. It includes time-of-use and step tariff functions and can be equipped with a PLC or RF module for communication, enabling remote load disconnection and reconnection.



Overview

Smart Energy Management

The Single Phase Smart Energy Meter is a versatile solution designed for precise measurement of both import and export active energy. It features advanced functionality including Time-of-Use (TOU) metering, step tariff capabilities, and remote load control for disconnection and reconnection. With flexible communication options via PLC or RF modules, this meter is engineered to meet modern smart grid requirements.

Key Features

Core Functionalities

Import/Export Active Energy, TOU & Step Tariff, Remote Load Control, PLC/RF Communication, Event Logging, Data Snapshot/Freezing

Technical Specifications

Standards & Accuracy

Parameter	Value
Standards	IEC62052-11; IEC62053-21
Accuracy Class	Class 1
Protocol	DL/T 645-2007

Electrical Ratings

- Reference Voltage: 120V/220V/230V/240V
- Reference Frequency: 50/60Hz
- Power Consumption: <1.5W, 6VA

Current Connection Types

CT Connection: 1.5(6)A • Direct: 10(40)A • Direct: 10(60)A • Direct: 20(80)A • Direct: 10(100)A

Environmental & Physical

Operating Conditions

-25 °C Min Operating Temp	60 °C Max Operating Temp	0.5 s/d RTC Deviation
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Physical Dimensions

160mm(L) x 112mm(W) x 71mm(H) | Weight: ~0.6kg

Expected Lifetime

15 years