

Highlights at a glance

Digital Display: Provides clear energy consumption readings.

Overcurrent Protection: Ensures safety by preventing excessive current flow.

Overvoltage Protection: Safeguards against high voltage surges.

Undercurrent Protection: Prevents low current issues for stable power supply.

Multi-Tariff Energy Metering: Tracks various billing rates for accurate cost management.

TOEM-63DN Multi-tariff Energy Meter with adjustable voltage, current and leakage protective device Note: This device can be equipped with a battery, but it is not included in the shipment. You will need to purchase CR2032 button batteries on your own.

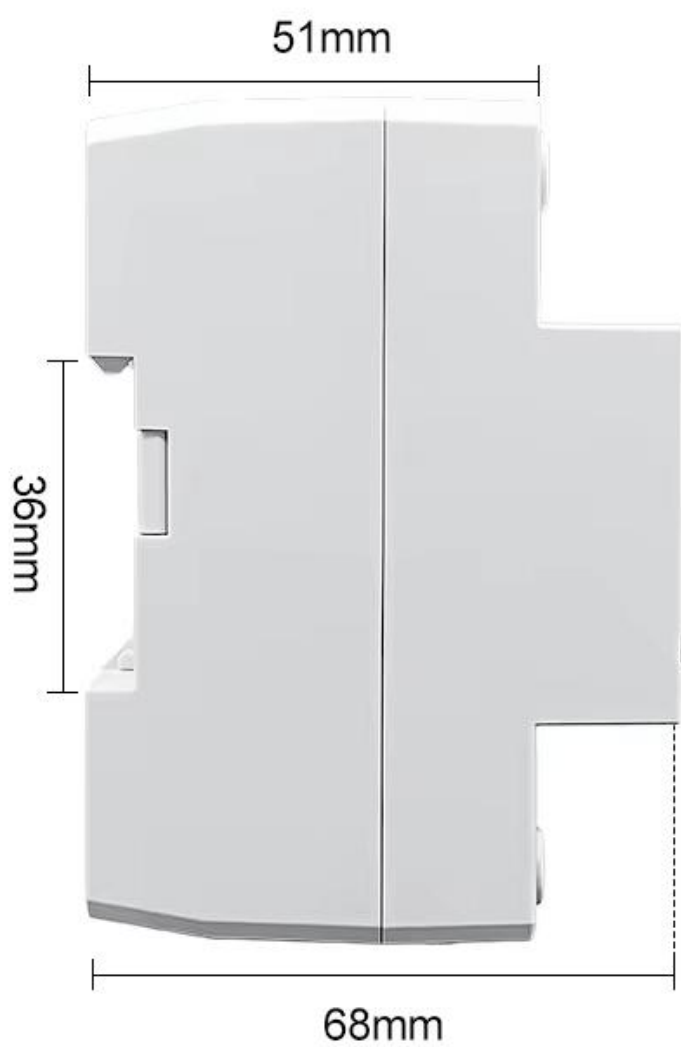
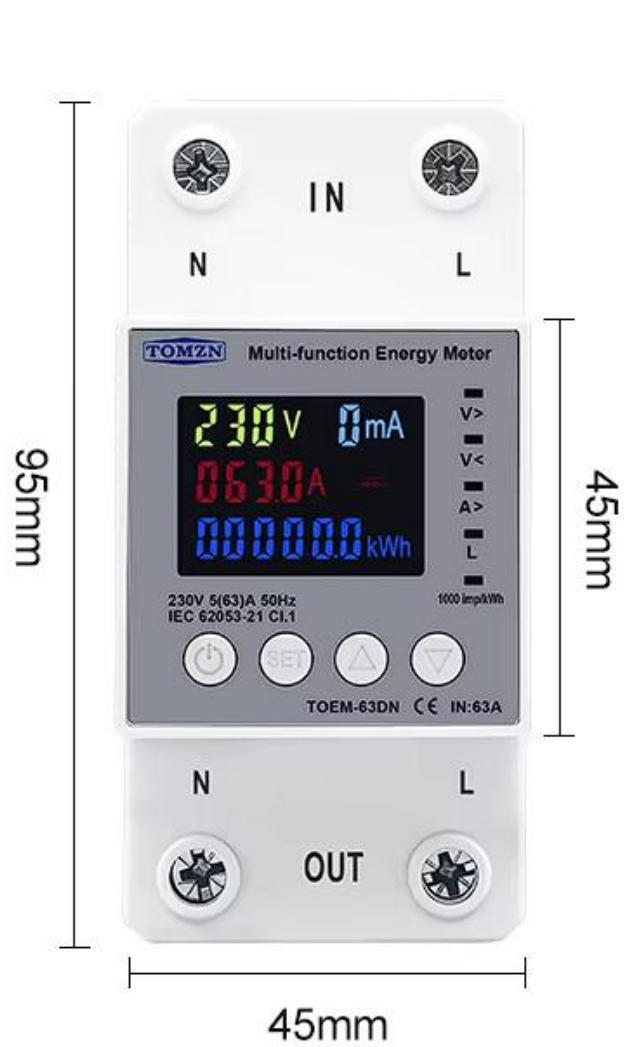
General This single-phase energy meter combines multi-tariff metering with fully adjustable protection functions. It independently records electricity consumption during user-defined Day (T1) and Night (T2) periods, with all time settings and historical data retained even during power outages. For convenient monitoring, the meter simultaneously displays voltage, current, T1/T2/Total kWh, active power (kW), power factor, frequency (Hz), prepaid remaining credit (kWh), leakage current (mA), date, and 24-hour time.

Function 1. Voltage, current, power, energy, leakage, PF, frequency, 24-hour time, Date, Prepaid kWh display. 3. Over and under voltage protection 4. Leakage protection 5. Cut off both L and N 6. Prepaid function 7. Measure electricity consumption by time period

Product parameter 1. Rated voltage: AC80-300V 2. Frequency: 50Hz/60Hz 3. Over voltage protection 120V-300V-OFF (adjustable) (default: 270V) 4. Under voltage protection OFF-80V-210V (adjustable) (default: 170V) 5. Three groups of time period over current rate limiting 1A-63A-OFF (adjustable) (default: 40A) 6. Reconnect time (delay on time): 1s-500s (default: 30s) 7. Voltage/current/kW calibration: -20%-20% 8. Action time: 1-30s (default 1s) 9. Power consumption less than 2W

PRODUCT PARAMETER

Function	Technical Parameter	Function	Technical Parameter
Input voltage	AC 80-300V	Power-on delay time	1-500s default 5s
Display interval delay time		1-500s default OFF	
Over-voltage protection value	120-300V default 270V	Over-voltage recovery value	115-265V default 265V
Under-voltage protection value	80-210V default 100V	Under-voltage recovery value	85-215V default 175V
Over-current protection value	63A:1-63A default 40A	Over-current recovery value	0.9-62.9A
Leakage protection value	10-99mA default 30mA	Continuous over current /leakage faults times	1-20 times default OFF
Recovery delay time	1-500s default 30s	Action time	1-30s default 1s
Voltage/current/ kW calibration	-20%-20%	Power consumption	$\leq 2W$
Electrical and mechanical life	≥ 100000 cycles	Boundary dimention	95 × 45 × 68MM



230V 10mA
063.0A
888888 kWh

SET

Rt
5

• Display interval delay time S

oFF / 1 → 500

SET

Pt
5

• Power-on delay time S

oFF / 1 → 500

SET

UH
270

• Over-voltage protection value V

120 → 300 → oFF

SET

UHR
265

• Over-voltage recovery value V

115 → 265

SET

UHRt
30

• Over-voltage recovery
delay time S

1 → 500

SET

UHe
t
10

• Over-voltage protection
action time S

1 → 30

SET

UL
100

• Under-voltage protection value V

oFF → 80 → 210

SET

ULr
215

• Under-voltage recovery value V

105 → 215

SET

ULr
t
30

• Under-voltage recovery
delay time S

1 → 500

SET

ULt
t
10

• Under-voltage protection
action time S

1 → 30

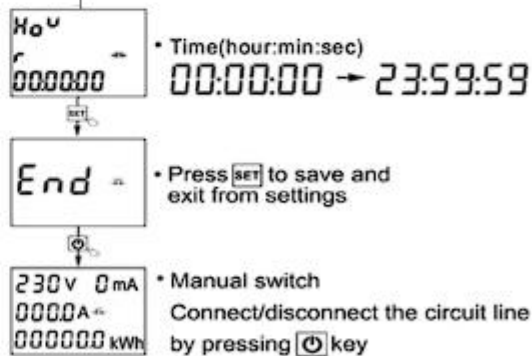
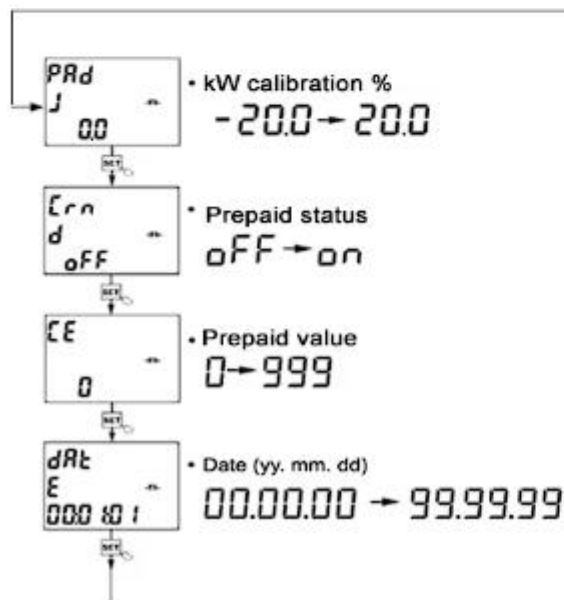
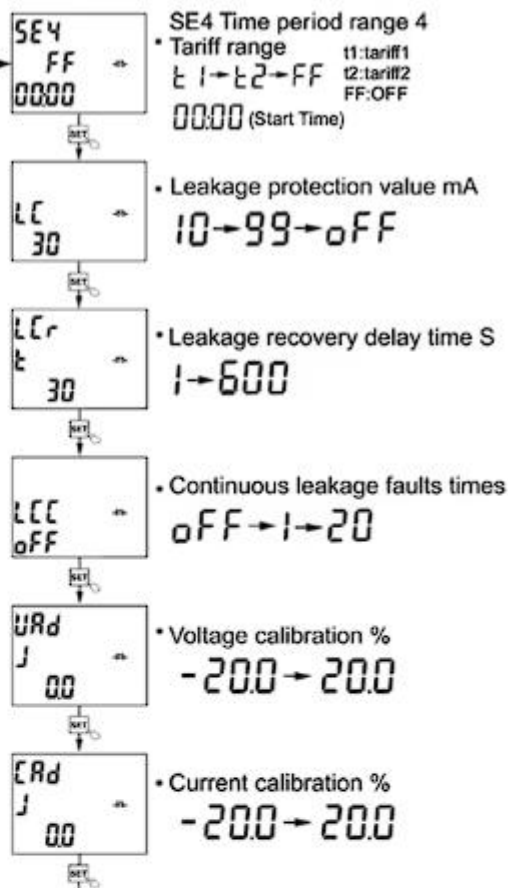
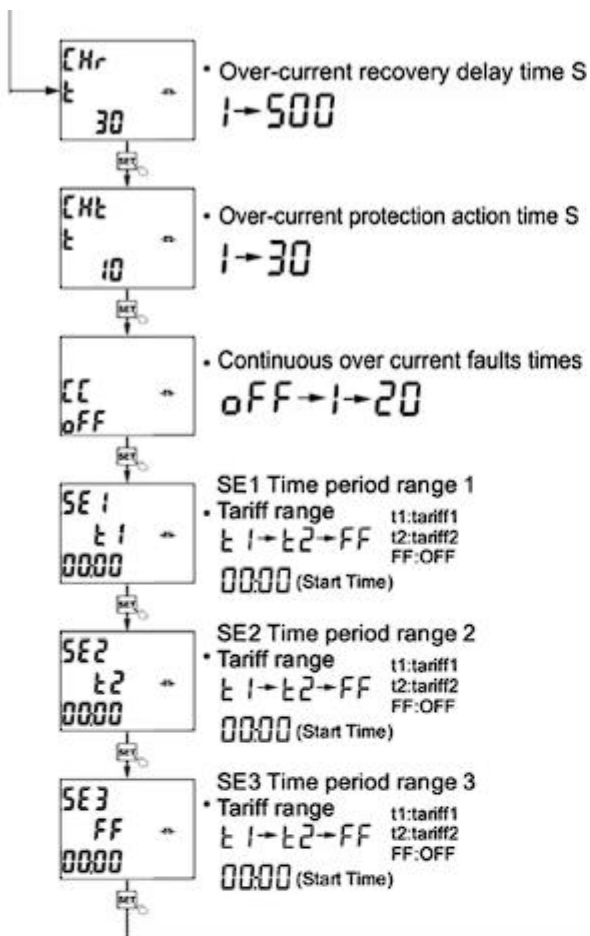
SET

CH
40

• Over Current Protection Value

1 → 63 → oFF

SET



*Adjust the setting value by pressing [▲] [▼] keys