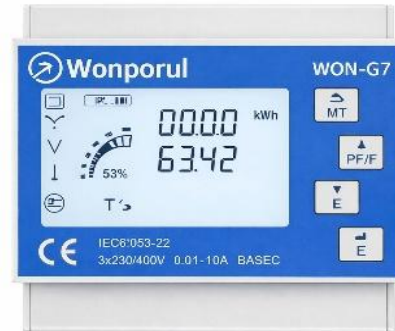


WON -G7

The Won-G7-WiFi series is a three-phase multifunctional energy meter that measures key electrical parameters such as voltage, current, power, power factor, harmonics, and bidirectional active/reactive energy.

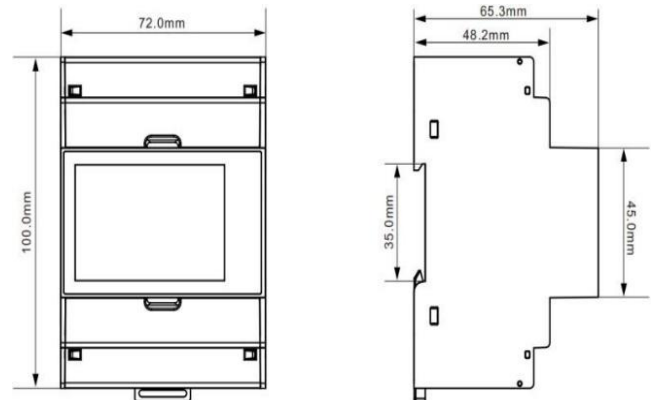
It supports 1P2W, 2P3W, 3P3W, and 3P4W systems, features RS485 communication (up to 38,400 bps) with Modbus and DLT645 protocols, and includes built-in Wi-Fi for wireless monitoring. A large LCD display with touch buttons and password protection ensures easy operation and secure data management.



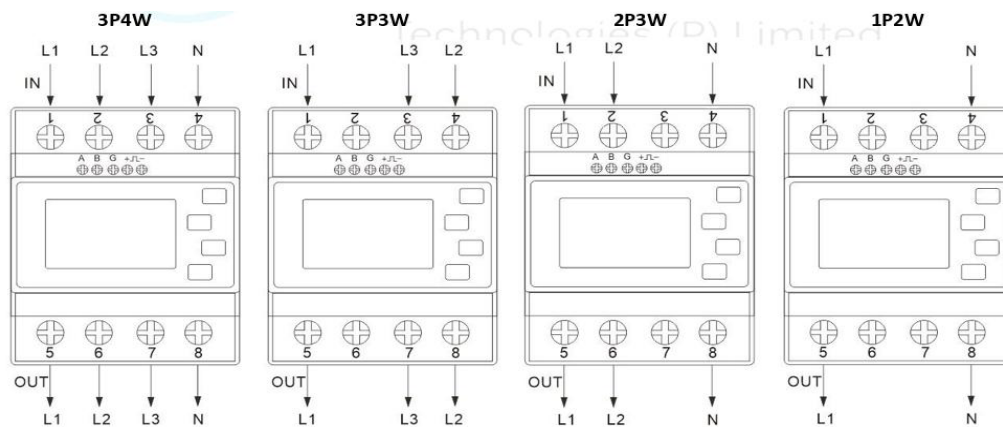
Product Features

- 4-line high-resolution LCD with backlight
- kWh value always visible on display
- Supports 3-phase power measurement (3P3W / 3P4W)
- RS-485 + Ethernet TCP/IP communication with Modbus-RTU
- AC/DC auxiliary power supply
- Data and settings retained during power failure
- Easy installation and wiring
- Password-protected configuration
- Displays instantaneous, maximum, and average values of V, I, and Power
- Multiple electrical parameters in one compact device.

Dimension



Wiring Diagram



Technical Specifications

Accuracy	Voltage/Current	Class 0.5, Refer to IEC 61557-12
	Active Power	Class 1 / Class 0.5, Refer to IEC 61557-12
	Reactive Power	Class 2, Refer to IEC 61557-12
	Apparent Power	Class 1, Refer to IEC 61557-12
	Active Energy	Class 1 / Class 0.5S, Refer to IEC 62053-21/22, IEC 61557-12
	Reactive Energy	Class 2, Refer to IEC 62053-23; Class 2, Refer to IEC 61557-12
	Power Factor	Class 1, Refer to IEC 61557-12
	Frequency	Class 0.2, Refer to IEC 61557-12
Power Quality	Voltage Harmonics	1-63 order& THD
	Current Harmonics	1-63 order& THD
Data Upgrading Rate	1s (Optional: 100ms)	
Voltage Input	Rated Voltage	3x230VAC(L-N)/400VAC(L-L)
	Voltage Input	Measurement Range:85 ~ 276 VAC(L-N), 85 ~ 480 VAC(L-L)
	Frequency	45 ~ 65 Hz
	Overload Capacity	2x Rated Voltage by lasting 1s
Current Input	Current Input	0.15 ~ 100 A, Rated 5A
	Overload Capacity	30x Max. Current by lasting 0.01s
Pulse Output	Pulse Type	Open collector optocoupler
	Pulse Constant	Configuration: 400(Default), 100, 10,1imp/kWh (kVArh)
	Pulse Width	Configuration: 60, 100(Default), 200ms
	Pulse Output Type	Configuration: Import/Export/Total active/Total Reactive kWh
	Class	Class A, Refer to IEC 62053-31
	Voltage Input	5 ~ 27 VDC
Pulse Light	Pulse constant:400imp/kWh	
Power Consumption Class	Self-Consumption Per Phase	Voltage Circuit: <2W/10VA. Current Circuit: <1VA

Electrical Specifications

Accuracy	Voltage/Current	Class 0.5, Refer to IEC 61557-12
	Active Power	Class 1 / Class 0.5, Refer to IEC 61557-12
	Reactive Power	Class 2, Refer to IEC 61557-12
	Apparent Power	Class 1, Refer to IEC 61557-12
	Active Energy	Class 1 / Class 0.5S, Refer to IEC 62053-21/22, IEC 61557-12
	Reactive Energy	Class 2, Refer to IEC 62053-23; Class 2, Refer to IEC 61557-12
	Power Factor	Class 1, Refer to IEC 61557-12
	Frequency	Class 0.2, Refer to IEC 61557-12
Pulse Light	Pulse constant:400imp/kWh	
Power Consumption Class	Self-Consumption Per Phase	Voltage Circuit: <2W/10VA. Current Circuit: <1VA
IP Class		LCD display: IP51(Indoor); Whole meter: IP30
Installation		TH35-7.5 DIN Rail
Flammability Class		UL 94 V-0
Utilization Category		UC2

Environmental Specifications

Operation Temperature	-25 ~ +55°C
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Storage Temperature	-40 ~ +80°C
Humidity	<90%, no condensing
Pollution Degree	2
Altitude	<2000m
Vibration Frequency	Range: 10~150Hz, Refer to IEC 60068-2-6
Electromagnetic Compatibility	
Electrostatic Discharge	Refer to IEC 61000-4-2 ⁽¹⁾ , Level 4
Immunity to radiated fields	Refer to IEC 61000-4-3 ⁽¹⁾ , Level 3
Immunity to Electrical fast transients	Refer to IEC 61000-4-4 ⁽¹⁾ , Level 4
Immunity to surges	Refer to IEC 61000-4-5 ⁽¹⁾ Level 4
Immunity to Conducted Disturbances	Refer to IEC 61000-4-6 ⁽¹⁾ , Level 3
Immunity to magnetic Field	Refer to IEC 61000-4-8 ⁽¹⁾
Immunity to Voltage dips	Refer to IEC 61000-4-11 ⁽¹⁾
Radiated Emissions	EN55011, Class B
Conducted Emissions	EN55011, Class B
Harmonic Emissions	Refer to IEC61000-3-2 ⁽¹⁾
(1): The Experimental test is carried out according to the grade requirements of Industrial Grade Products in IEC 61326-1	
Safety Specifications	
Installation Degree	CAT III, Refer to IEC 61010-1
Overvoltage Degree	CAT III, Refer to IEC 61010-1
Insulation	AC withstand voltage: 4kVAC by lasting 1 minute Pulse withstand voltage: 6kVAC - 1.2/50μS waveform
Insulation Degree	Double insulation, Refer to IEC 61010-1
Interface and Protocol	2-Wire RS485; Modbus RTU(Default), DL/T645-2007(Optional)
Baud rate	1200, 2400, 4800, 9600(Default), 19200, 38400 bps
Parity	None (Default), Even, Odd
Stop Bit	1(Default), 2
Response Time	<100ms
Bus Type	Semi-duplex
Distance	Max. 1000m
Bus Load	Max. 64pcs
Wireless Communication	Wi-Fi

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