

EMMA-A02

Energy Management Assistance



Accurate

Class 1 measurement accuracy



Easy

Built-in WLAN/FE module



Intelligent

Optimization of PV and ESS scheduling based on prediction



Flexible

Compatible with several household appliances



Convenient

Measurement integrated

Technical Specification

Technical Specification		EMMA-A02
General Data		
Dimension(W × H × D)		108 × 100 × 65 mm
Mounting Type		DIN35 Rail
Height requirement of cabinet		≥ 47.5mm
Weight		0.5 kg
Power Supply		
Grid Type		1P2W / 3P3W / 3P4W
AC Voltage		1P2W: 100 ~ 240V, 50 / 60Hz 3P3W: 346 ~ 415V, 50 / 60Hz 3P4W: 346 ~ 415V, 50 / 60Hz
Typical Power Consumption		4W
Interface		
Power Output		9.5~13.2V @ 100mA, ≤ 3m
LAN		10 / 100Mbps, ≤ 100m
WAN		10 / 100Mbps, ≤ 100m
WLAN		AP + STA, 802.11b/g/n (2.412GHz ~ 2.484GHz)
RS485		9600 / 19200 / 115200bps, × 2, ≤ 50m
Digital Input		× 2, ≤ 20m
Digital Output		× 2, ≤ 20m
Interaction		
LED		LED Indicator × 3 – RUN, ALM, COM
Button		RST
APP		Communication by WLAN for Commissioning
Measurement Range		
Current Range		Direct connection: ≤ 63 A, external CT ¹ : > 63 A
Voltage Range		1P (L-N): 85 ~ 299 Vac; 3P (L-L): 148 ~ 520 Vac
Energy Accuracy		± 1%
Device Management		
Smart Energy Controllers		up to 3
Smart Chargers		up to 2
Heat Pump		up to 2 ²
Shelly Device		up to 20
Environment		
Operating Temperature Range		-25°C ~ +60°C
Storage Temperature Range		-40°C ~ +85°C
Relative humidity range		5% - 95% RH (non-condensing)
Max. operating altitude		4000 m (derating > 2000m)
Degree of Protection		IP2X
Compatible Device		
Smart Energy Controller		SUN2000-2-6KTL-L1 SUN2000-8-10K-LC0 SUN2000-3-10KTL-M1 SUN2000-12-25KTL-M5 SUN2000-12-25K-MB0
Smart Charger		SCharger-7KS/22KT-S0
Heat Pump		SG-ready
Shelly Device		Shelly Plus Plug S, Shelly Plus 2PM, Shelly Pro 2PM

¹ 1 2nd current should be 50mA, length ≤ 30m

² 2 Heat Pumps are allowed to direct connect to EMMAA02. More can be connected via shelly device

Disclaimer: the preceding values are measured by an internal laboratory of Huawei in a specific environment. The actual values may vary with products, software versions, usage conditions, and environmental factors.