

# 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
<b>General Data</b>		
Dimension(W × H × D)	108 × 100 × 65 mm	
Mounting Type	DIN35 Rail	
Height requirement of cabinet	≥ 47.5mm	
Weight	0.5 kg	
<b>Power Supply</b>		
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	
<b>Interface</b>		
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	
<b>Interaction</b>		
LED	LED Indicator × 3 – RUN, ALM, COM	
Button	RST	
APP	Communication by WLAN for Commissioning	
<b>Measurement Range</b>		
Current Range	Direct connection: ≤ 63 A, external CT <sup>1</sup> : > 63 A	
Voltage Range	1P (L-N): 85 ~ 299 Vac; 3P (L-L): 148 ~ 520 Vac	
Energy Accuracy	± 1%	
<b>Device Management</b>		
Smart Energy Controllers	up to 3	
Smart Chargers	up to 2	
Heat Pump	up to 2 <sup>2</sup>	
Shelly Device	up to 20	
<b>Environment</b>		
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	
<b>Compatible Device</b>		
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	

<sup>1</sup> 2nd current should be 50mA, length ≤ 30m

<sup>2</sup> 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.