

ENERGY MANAGEMENT ASSISTANT

EMMA-A02



Accurate
Class 1 measurement
accuracy



Easy
Built-in WLAN module for easy
commissioning



Intelligent
Optimization of PV and
ESS scheduling based on
prediction



Energy Management
Management for PV, ESS,
Charger, Heat Pump and
other appliances

EMMA

Technical Specifications

Technical Specification		EMMA-A02	
General Data			
Dimension(W × H × D)	108 mm × 100 mm × 65 mm		
Mounting type	DIN35 Rail		
Height requirement of cabinet	≥ 47.5 mm		
Weight	0.5 kg		
Power Supply			
AC Voltage	1P2W: 100 ~ 240V, 50 / 60Hz	3P3W: 346 ~ 415V, 50 / 60Hz	3P4W: 346 ~ 415V, 50 / 60Hz
Typical power consumption	4 W		
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, ≤ 20 m		
Digital output	× 2, ≤ 20 m		
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 1 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	4000m (derating over 2000m)		
Degree of protection	IP2X		
Compatible Device			
Smart energy controllers	SUN2000-2-6KTL-L1		
	SUN2000-8-10K LCO		
	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 ³		

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

*2 1 Heat Pumps are allowed to directly connect to EMMA-A02. More can be connected via shelly device

*3 The supported firmware version of shelly devices can be found in user manual

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.