

ENERGY MANAGEMENT ASSISTANT

EMMA-A02





Accurate Class 1 measurement accuracy



EasyBuilt-in WLAN module for easy commissioning



Intelligent Optimization of PV and ESS scheduling based on prediction



FlexibleManagement for PV, ESS, Charger , Heat Pump and other appliances

EMMA **Technical Specifications**

Technical Specification	EMMA-A02
	General Data
Dimension(W \times H \times 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 CT¹ : > 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 controller	SUN2000-2-6KTL-L1, SUN2000-8-10K LC0, SUN2000-3-10KTL-M1, SUN2000-12-25KTL-M5, SUN2000-12-25K-MB0, SUN5000-8/12K-MAP0, SUN5000-17/25K-MB0
Smart charger	SCharger-7KS/22KT-S0
Heat pump	SG-ready
Shelly device	Shelly Plus Plug S, Shelly Plus 2PM, Shelly Pro 2PM ³
Smart Scheduling ⁴	SUN2000-2-6KTL-L1, SUN2000-8-10K-LC0, SUN2000-3-10KTL-M1, SUN2000-12-25K-MB0, SUN5000-8, MAP0, SUN5000-17/25K-MB0 + LUNA2000-5/10/15-S0 / LUNA2000-7/14/21-S1

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.

^{*1.} The secondary current of an external CT connected shall be 50 mA, and the cable length can be up to 30 m.
*2. A heat pump can be directly connected to EMMA-A02. More appliances can be connected through a Shelly device.
*3. For the Shelly device firmware version supported, please refer to the user manual.

^{*4.} The smart scheduling function of the EMMA is offered free of charge for two years from the trial start date. After this period, we reserve the right to charge for this service.