

ENERGY MANAGEMENT ASSISTANT

Model: EMMA-A02





Accurate
Class 1 measurement
accuracy



EasyBuilt-in WLAN module for easy commissioning



Intelligent Optimization of PV and ESS scheduling based on prediction



Flexible
Management for PV, ESS,
Charger and home
appliances

Model: EMMA-A02

Technical Specifications

Technical Specification	EMMA-A02			
	Gen	eral 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			
	Pow	er Supply		
AC Voltage	1P2W: 100 ~ 240V, 50 / 60Hz	3P3W: 346 ~ 415V, 50 / 60Hz	3P4W: 346 ~ 415V, 50 / 60Hz	
Typical power consumption		4 W		
	In	terface		
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			
	Int	eraction		
LED	LED Indicator × 3 RUN, ALM, COM			
Button	RST			
APP	Communication by WLAN for Commissioning			
	Measur	ement 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 I	Management		
Smart energy controllers	up to 3			
Smart chargers	up to 2			
Heat pump	up to 1 ²			
Shelly device	up to 20			
	Env	ironment		
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			
	Compa	tible Device		
		SUN2000-2-6KTL-L1		
WLAN	SUN2000-8-10K LC0 SUN2000-3-10KTL-M1			
		SUN2000-3-10KYL-WI		
	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} The ESS smart scheduling feature of EMMA is free for two years starting from the initial trial date. We reserve the right to charge for this service after the two-year trial period.

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.

^{*2} The secondary current of CTs should be 50 mA, and the length of cable can be up to 30 m.

^{*3} Heat Pumps are allowed to directly connect to EMMA-A02. More can be connected via shelly device

 $^{{\}bf *4}$ The supported firmware version of shelly devices can be found in user manual.