HUAWEI

ENERGITEKNIK

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

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

Version No.: 07-202402

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 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 [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 manual0.10.2 beta 1 or 1.0.3 for Shelly Pro 2PM

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.

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