EMMA Technical Specifications

Technical Specification	EMMA-A02			
	Gener	al 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			
veigne	Power	Supply		
AC Voltage	1P2W: 100 ~ 240V, 50 / 60Hz	3P3W: 346 ~ 415V, 50 / 60Hz	3P4W: 346 ~ 415V, 50 / 60Hz	
Typical power consumption		4 W		
3 ,,	Inte	rface		
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			
	× 2, ≤ 20 m × 2, ≤ 20 m			
Digital output	Inter	* 2, \$ 20 III		
150	Intera		4	
LED	LED Indicator × 3 RUN, ALM, COM			
Button	RST			
APP	Communication by WLAN for Commissioning			
		nent 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 Ma	anagement		
Smart energy controllers	up to 3			
Smart chargers	up to 2			
Heat pump	up to 1 ²			
Shelly device		up to 20		
	Enviro	nment		
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			
	Compatil	ole Device		
Smart energy controller	SUN2000-12/15/17/20/25K7	SUN2000-2/3/3.68/4/4.6/5/6KTL-L1, SUN2000-8/10K-LC0, SUN2000-3/4/5/6/8/10KTL-M1, SUN2000-12/15/17/20/25KTL-M5, SUN2000-12/15/17/20/25K-MB0, SUN2000-5/6/8/10/12K-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	SUN2000-2/3/3.68/4/4.6/5/6KTL-L1, SUN2000-8/10K-LC0, SUN2000-3/4/5/6/8/10KTL-M1, SUN2000-12/15/17/20/25KTL-M5, SUN2000-12/15/17/20/25K-MB0, SUN2000-5/6/8/10/12K-MAP0, SUN5000-8/12K-MAP0, SUN5000-17/25K-MB0+ LUNA2000-5/10/15-S0 / LUNA2000-7/14/21-S1			
Dynamic tariff	Automatically connect t	Automatically connect to Nord Pool electricity market and obtain day-ahead dynamic tariff. (Available in Sweden, Denmark, Finland, Norway, Lithuania, Estonia, Latvia, and the Netherlands.)		

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.