

Technical Specifications

Technical Specification	SA4H-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 (2.4GHz~2.4835GHz)		
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%		
	Environment		
Operating temperature range	-25 °C to +60 °C		
Storage temperature range	-40 °C to +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	SUN2000-2/3/3.68/4/4.6/5/6KTL-L1, SUN2000-3/3.68/4/4.6/5/6K-LB0, SUN2000-8/10K-LC0, SUN2000-3/4/5/6/8/10KTL-M1, SUN2000-12/15/17/20/25KTL-M5, SUN2000-5/6/8/10/12K-MAP0, SUN2000-12/15/17/20/25K-MB0, SUN5000-8/12K-MAP0, SUN5000-17/25K-MB0		
Smart charger	SCharger-7KS/22KT-S0		
Heat pump ²	SG-ready, EEBUS, up to 1		
Heating rod ²	Modbus-TCP, up to 1		
Third-party EV-charger ²	Modbus-TCP, up to 1		
Shelly device ²	Shelly Plus Plug S, Shelly Plus 2PM, Shelly Pro 2PM, up to 20		
Smart Scheduling ³	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, LUNA2000-5/7/10/12/14/15/17/19/21-S1		
Dynamic tariff	Nord Pool: Sweden, Denmark, Finland, Norway, Lithuania, Estonia, Latvia, Netherlands, Germany, Belgium, Poland, Luxembourg ESIOS: Spain TGE: Poland EPEX Spot: Germany, Austria, France, Belgium, UK		

*1. The secondary current of an external CT connected shall be 50 mA, and the cable length can be up to 30 m.

*2. For the third-party device compatibility list, please refer to the user manual.

*3. The smart scheduling function of the SmartAssistant 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.