

SmartGuard-63A-S0
Smart Guard



Simple

Whole home backup, no need of additional switchboard



Seamless

≤20ms Ultra-fast switchover to power backup mode



Reliable

Provide bypass mode when a fault occurs



Intelligent

Intelligent load control with built-in EMMA

Technical Specification

Technical Specification	SmartGuard-63A-S0
General Data	
Dimension(W × H × D)	485 × 150 × 355 mm
Weight	≤14 kg
Performance	
AC Voltage (Nominal)	220/230/240V L/N+PE
Max. Current (from Grid)	63 A
Max. Current (from Inverter)	60 A
Max. Current (to Backup Load) ¹	63 A
Max. Current (to Non-Backup Load) ¹	63 A
Self Consumption	10 W
Low-Voltage Ride-through	Supported
Switchover Time	≤ 20ms (in Seamless Mode)
Triggering Mode	Automatically
Bypass Operation Mode	Manual
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, ≤ 20m
Digital Output	× 2, ≤ 20m
Measurement Range	
Current Range	≤ 63 A
Voltage Range	1P (L-N): 85 ~ 299 Vac
Energy Accuracy	± 1%
Device Management	
Smart Energy Controllers	up to 1
Smart Chargers	up to 2
Heat Pump	up to 2 ²
Shelly Device	up to 20
Environment	
Noise Emission	≤ 29dBA
Cooling	Natural Convection
Relative Humidity range	5 - 95% RH (non-condensing)
Max. Operating altitude	4000m (derating over 2000m)
Degree of Protection	IP55
Operating Temperature Range	-25~50°C ²
Compatible Device	
Smart Energy Controller	SUN2000-2-6KTL-L1 SUN2000-8-10K-LC0
Smart Charger	SCharger-7KS-S0
Heat Pump	SG-ready
Shelly Device	Shelly Plus Plug S, Shelly Plus 2PM, Shelly Pro 2PM

¹ The sum of the output current of the backup port and the nonbackup port could not be more than 63A

² On-grid Mode: -25~30°C, no derating; 30~40°C, linear derating from 63A to 50A; 40~50°C, linear derating from 50A to 40A

Off-grid Mode: -25~40°C, no derating; 40~50°C, linear derating from 54.5A to 50A

SmartGuard-63A-S0
全屋备电



便捷安装

全屋备电，无需安装额外的配电盘



无缝切换

20ms无缝切换至备电模式，掉电无感



放心可靠

紧急情况下提供旁路模式



智能管理

通过内置的EMMA-A02可管理家庭用电设备，如热泵等

技术参数	SmartGuard-63A-S0
常规参数	
尺寸 (宽×高×深)	485 × 150 × 355 mm
重量	≤ 14 kg
性能	
额定交流电压	220/230/240V L/N+PE
电网侧最大电流	63 A
逆变器侧最大电流	60 A
备电端口最大电流	63 A
非备电端口最大电流	63 A
待机损耗	10 W
低压穿越	支持
并网切换时间	≤ 20ms (使能无缝切换时)
离网模式触发方式	自动切换
旁路模式切换方式	手动切换
通讯接口	
输出电压	9.5~13.2V @ 100mA, ≤ 3m
LAN口	10 / 100Mbps, ≤ 100m
WAN口	10 / 100Mbps, ≤ 100m
WLAN	AP + STA, 802.11b/g/n (2.412GHz ~ 2.484GHz)
RS485	9600 / 19200 / 115200bps, × 2, ≤ 50m
数字信号输入	× 2, ≤ 20m
数字信号输出	× 2, ≤ 20m
测量范围	
电流量程	≤ 63 A
电压量程	单相, 相电压: 85 ~ 299 Vac
电量测量精度	± 1%
设备接入	
智能能源控制器	1台
智能充电桩	≤ 2台
热泵	≤ 2台
Shelly设备	≤ 20台
工作环境	
噪声等级	≤ 29dBA
散热方式	自然散热
相对湿度范围	5 - 95% RH (无凝露)
工作海拔	4000m (2000m以上降额)
防护等级	IP55
工作温度	-25~50°C ²
适配设备型号	
智能能源控制器	SUN2000-2-6KTL-L1
智能充电桩	SUN2000-8-10K-LC0
热泵	SCharger-7KS-S0
Shelly设备	SG-ready
	Shelly Plus Plug S, Shelly Plus 2PM, Shelly Pro 2PM

*1 备电端口和非备电端口的电流和不应超过63A

*2 并网模式: -25~30°C 无降额, 30~40°C 从63A到50A线性降额, 40~50°C 从50A到40A线性降额
离网模式: -25~40°C 无降额, 40~50°C 54.5A线性降额至50A

声明: 以上数据为理论值, 均由内部实验室于特定环境下测得, 实际使用中可能因产品个体差异、软件版本、使用条件和环境因素不同略有不同, 请以实际情况为准。