

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 Mode, 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

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.