HUAWEI

SMARTGUARD

SmartGuard-63A-S0



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

Version No.: 04-202311

SmartGuard-63A-S0
Technical Specifications

Technical Specification	SmartGuard-63A-S0
General Data	
Dimensions (W x H x D)	485 mm × 150 mm × 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)	63 A
Max. current (to Non-BackupLoad) [1]	63 A
Self consumption	10 W
Low-Voltage ride-through	Supported
Switchover time	≤ 20ms (in Seamless Mode)
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 1[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°C ~ 50°C [3]
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 [4]

*1 The sum of the output current of the backup port and the non-backup port could not be more than 63A
*2 1 SG-ready Heat Pump can be connected directly. Others can be connected via shelly devices.
*3 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
*4 Firmware version should be: 0.12.99 plugsprod1 or 0.14.4 for Shelly Plus Plug S, 0.10.2 beta4 for Shelly Plus 2PM, 0.10.2 beta1 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.

Version No.: 04-202311

HUAWEI

SMARTGUARD

Model：SmartGuard-63A-T0/AUT0



Simple
Three-phase whole home backup supported

Seamless
≤20ms Ultra-fast switchover to power backup mode

Reliable
Provide bypass mode when a fault occurs

Intelligent
Ready for DG, intelligent loads management with EMMA

Version No.: 01-202411

SmartGuard-63A-T0/AUT0

Technical Specifications

Technical Specification	SmartGuard-63A-T0	SmartGuard-63A-AUT0
General Data		
Dimensions (W x H x D)	600 mm × 170 mm × 490 mm	
Weight (not including mounting plate)	17 kg	
Performance		
AC Voltage (Nominal)	380/400/415V, 220/230/240V, L1/L2/L3/N+PE	
Max. current (from/to Grid)	63 A	
Max. current (from/to Inverter)	60 A	
Max. current (to Backup Load)	63 A	
Max. current(to Non-BackupLoad) [1]	63 A	
Low-Voltage ride-through	Supported	
Switchover time	≤ 20ms (MAP0), ≤ 100ms (M1/MB0) [2]	
Bypass operation mode	Manual	
DG mode	Remote control	
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; Avtive port [3]	
Digital output	×2, ≤ 20m	
DG Do Port	Passive Port, 1-100mA ≤24V	
ATS	Need prepare the ATS, which supports automatic control and automatic switch-in and reset.	
Measurement Range		
Current range	≤ 63 A	
Energy accuracy	± 1%	
Device Management		
Smart energy controllers	up to 3	
Smart chargers	up to 2	
Heat pump	up to 1[4]	
Shelly device	up to 20	
Environment		
Cooling	Natural Convection	
Relative humidity range	5%-95% RH (non condensing)	
Max. operating altitude	4000m (derated over 2000m)	
Degree of protection	IP55	
Operating temperature range	-25°C–50°C [5]	
Compatible Device		
Smart energy controller	SMax. 3 inverters supported in parallel connection (MAP0) Max. 1 inverter supported (M1/MB0)	
Smart charger	SCharger–7KS/22KT–S0	
Heat pump	SG-ready	
Shelly device	Shelly Plus Plug S, Shelly Plus 2PM, Shelly Pro 2PM [6]	

*1 The sum of the output current of the backup port and the non backup port could not be more than 63A
*2 Seamless switching is disabled by default and needs to be manually enabled.
*3 The position feedback signal must be a passive port that works with an external circuit and can work at a current of less than or equal to 0.7 mA@12 V. The low impedance of the circuit for the position feedback signal is less than or equal to 100 ohms.
*4 1 SG ready Heat Pump can be connected directly. Others can be connected via shelly devices.
*5 On grid Mode: 25–30°C, no derating; 30–50°C, linear derating from 63A to 43A;
Off grid Mode: 25–40°C, no derating; 40–50°C, linear derating from 60A to 50A
*6 The supported firmware version of shelly devices can be found in user manual.

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