

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