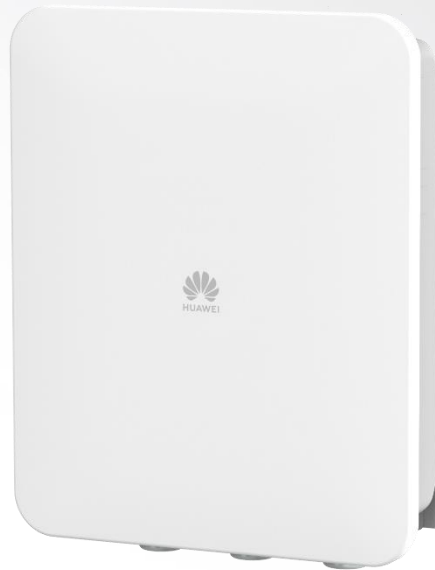# SMARTGUARD

## SmartGuard-63A-T0/AUT0

**Simple**
Three-phase whole home backup, One-fits-all

**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

| 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 (2.4GHz ~ 2.4835GHz) | |
| 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 (derating over 2000m) | |
| Degree of protection | IP55 | |
| Operating temperature range | -25°C ~ 50°C [5] | |
| **Compatible Device** | | |
| Smart energy controller | Max. 3 inverters supported in parallel connection (MAP0)<br>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.