

# 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

# SmartGuard-63A-T0/AUTO

## Technical Specifications

| Technical Specification                       | SmartGuard-63A-T0                                                                              | SmartGuard-63A-AUTO |
|-----------------------------------------------|------------------------------------------------------------------------------------------------|---------------------|
| 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) <sup>1</sup> | 63 A                                                                                           |                     |
| Low-Voltage ride-through                      | Supported                                                                                      |                     |
| Switchover time                               | ≤ 20ms (MAP0), ≤ 100ms (M1/MB0) <sup>2</sup>                                                   |                     |
| 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; Active port <sup>3</sup>                                                            |                     |
| 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 <sup>4</sup>                                                                           |                     |
| 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 <sup>5</sup>                                                                      |                     |
| 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 <sup>6</sup>                               |                     |

<sup>\*1</sup> The sum of the output current of the backup port and the non-backup port could not be more than 63A.

<sup>\*2</sup> Seamless switching is disabled by default and needs to be manually enabled.

<sup>\*3</sup> 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.

<sup>\*4</sup> 1 SG-ready Heat Pump can be connected directly. Others can be connected via shelly devices.

<sup>\*5</sup> 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.

<sup>\*6</sup> The supported firmware version of shelly devices can be found in user manual.

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.