

YOUR  
SMART  
ENERGY



# SMILE-G3-S8

RESIDENTIAL SERIES

## POWER

8 kW Hybrid Inverter  
Expandable to 24 kW  
Single Phase

## CAPACITY

8.2 ~ 49.2 kWh with  
8.2 kWh Battery Module



**All-in-one Design**

**High Voltage System**

**UPS Seamless Switch**

**Off-grid Max. 200% Overload, 30s**

**Support 3 in Parallel, Dual Power Supply**

**Wider Range of MPPT Work Voltage**

**Max. 28 Configurable Time Periods\***

\*Up to 6 time periods daily or 4 time periods\*7 days weekly for charging and discharging can be set.

# SMILE-G3-S8



| Model                                            | SMILE-G3-S8                                      |
|--------------------------------------------------|--------------------------------------------------|
| <b>System Specification</b>                      |                                                  |
| Battery Chemistry                                | LFP ( LiFePO4 )                                  |
| Nominal Output Power                             | 8000 W                                           |
| Capacity Range                                   | 8.2 ~ 49.2 kWh ( 95% DoD )                       |
| Warranty                                         | 10 Years                                         |
| <b>PV Input Technical Specification</b>          |                                                  |
| Max PV Input Power                               | 10000 W                                          |
| Max PV Input Current                             | 15 A / 15 A                                      |
| Max. PV Input Voltage                            | 580 V                                            |
| MPPT Number / Max. Input Strings Number per MPPT | 2 / 1                                            |
| MPPT Voltage Range                               | 100 ~ 550 V                                      |
| Max. PV Short-Circuit Current                    | 22.5 A / 22.5 A                                  |
| MPPT Efficiency                                  | >99%                                             |
| <b>Inverter Technical Specification</b>          |                                                  |
| <b>AC Input &amp; Output Data (Grid Side)</b>    |                                                  |
| Rated AC Output Power                            | 8000 W                                           |
| Max. AC Input Power                              | 11500 W                                          |
| Rated Frequency                                  | 50 / 60 Hz                                       |
| Rated Voltage                                    | 230 V                                            |
| Grid Voltage Range                               | 150 ~ 287 V                                      |
| <b>Backup Output Data</b>                        |                                                  |
| Rated Output Power (Off-grid)                    | 8000 W                                           |
| Rated Output Voltage (Off-grid)                  | 230 V $\pm$ 10%                                  |
| On/Off Grid Switch Time                          | $\leq$ 20ms                                      |
| Peak Power (Off-grid)                            | 8800 W 60s; 12000 W 30s                          |
| Max. Continuous AC Passthrough                   | 50 A                                             |
| Rated Output Current ( off-grid )                | 34.8 A                                           |
| <b>General Specification</b>                     |                                                  |
| Dimension ( W x D x H )                          | 610 x 212 x 366 mm                               |
| Weight                                           | 19.5 kg                                          |
| Communication                                    | Ethernet / WiFi                                  |
| Relative Humidity                                | 0 ~ 90% ( Non-Condensing )                       |
| Operation Temperature                            | -25 ~ 60°C                                       |
| Noise                                            | <35 dB                                           |
| Over Voltage Category                            | DC Type III / AC Type II                         |
| Ingress Protection(IP) Rating                    | IP 65                                            |
| Operation Altitude                               | 3000 m                                           |
| Safety                                           | IEC62109-1/-2, IEC62477, IEC62040-1              |
| EMC                                              | IEC61000-6-1/-2/-3/-4                            |
| Grid Regulation                                  | AS 4777.2, NRS 097, VDE 4105, EN 50549, CEI 0-21 |
| <b>Battery Technical Specification</b>           |                                                  |
| Module Mode                                      | SMILE-G3-BAT-8.2P                                |
| Module Capacity                                  | 8.2 kWh                                          |
| Usable Capacity                                  | 7.8 kWh                                          |
| Depth of Discharge (DoD)                         | 95 %*                                            |
| Nominal Voltage                                  | 256 V                                            |
| Max. Charging / Discharging Current              | 32 A**                                           |
| Operating Temperature Range                      | -10°C ~ 50°C***                                  |
| Battery Modules Connection                       | 1 ~ 6 in parallel                                |
| Dimension (W x D x H)                            | 610 x 212 x 793 mm                               |
| Weight                                           | 78.3 kg                                          |
| Ingress Protection(IP) Rating                    | IP 21                                            |

\* Test Condition: Max 0.5 C charge&discharge at 25 $\pm$ 2 C

\*\* Support 32 A long-term work, support 40 A work for 30min

\*\*\* Max. charge/discharge current derating will occur related to temperature and SOC..



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