

## RESIDENTIAL SERIES

2.9 / 5.7 / 10.1 / 13.3 kWh  
expandable to 80.0 kWh



# SMILE5



| Model SMILE5          |                             |                                                   |                              |                               |
|-----------------------|-----------------------------|---------------------------------------------------|------------------------------|-------------------------------|
| System Specification  |                             |                                                   |                              |                               |
| Nominal Output Power  |                             | 5000 W / 4600 W (DE)                              |                              |                               |
| Capacity Range        | 2.9 ~ 17.2 kWh<br>(96% DoD) | 5.7 ~ 34.4 kWh<br>(96% DoD)                       | 10.1 ~ 60.6 kWh<br>(96% DoD) | 13.3 ~ 80.0 kWh<br>(100% DoD) |
| Usable Capacity Range | 2.8 ~ 16.5 kWh              | 5.5 ~ 33.0 kWh                                    | 9.7 ~ 58.1 kWh               | 13.3 ~ 80.0 kWh               |
| Battery Chemistry     |                             | LFP (LiFePO4)                                     |                              |                               |
| IP Protection         |                             | IP21 (Indoor) / IP65 (Outdoor)                    |                              |                               |
| Warranty              |                             | 5 Year Product Warranty, 10 Year Battery Warranty |                              |                               |

| Inverter Technical Specification  |             |                                                                                                           |                              |
|-----------------------------------|-------------|-----------------------------------------------------------------------------------------------------------|------------------------------|
| Model                             | SMILE5-INV  | Rated Frequency                                                                                           | 50 / 60 Hz                   |
| Max. PV Input Power               | 2 x 3300 W  | Phase                                                                                                     | Single-Phase                 |
| Max. PV Input Current             | 2 x 12 A    | Backup                                                                                                    | UPS                          |
| Max. PV Input Voltage             | 580 V       | Display                                                                                                   | LCD                          |
| MPPT Number                       | 2           | Communication                                                                                             | Ethernet / WIFI              |
| MPPT Voltage Range                | 125 ~ 550 V | Start Up DC Voltage                                                                                       | 125 V                        |
| Max. PV Short-circuit Current     | 2 x 15 A    | Relative Humidity                                                                                         | 15% ~ 85%<br>(No Condensing) |
| Max. Charging/Discharging Current | 100 A       | Dimension (W x D x H)                                                                                     | 610 x 210 x 627 mm           |
| Max. Charging/Discharging Power   | 5000 W      | Weight                                                                                                    | 35 kg                        |
| Rated Voltage                     | 230 V       | EMC                                                                                                       | EN 61000-6-1/2/3/4           |
| Safety                            |             | IEC 62109-1&-2, IEC 62477-1, IEC 62040.1.1, IEC 62116                                                     |                              |
| Grid Regulation                   |             | VDE-AR-N 4105, VDE 0126-1-1, AS 4777.2/3, CEI 0-21, G99-1, G100, RD 1699, NRS 097-2-1, TOR Erzeuger Typ A |                              |

| Battery Technical Specification   |                 |                 |                 |                 |
|-----------------------------------|-----------------|-----------------|-----------------|-----------------|
| Module Model                      | M4856-P         | SMILE5-BAT      | SMILE-BAT-10.1P | SMILE-BAT-13.3P |
| Module Capacity                   | 2.9 kWh         | 5.7 kWh         | 10.1 kWh        | 13.3 kWh        |
| Module Nominal Voltage            | 51.2 V          | 51.2 V          | 48 V            | 48 V            |
| Operating Temperature Range       | -10 °C ~ 50 °C* | -10 °C ~ 50 °C* | -10 °C ~ 50 °C* | -10 °C ~ 50 °C* |
| Max. Modules in Parallel          | 6               | 6               | 6               | 6**             |
| Max. Charging/Discharging Current | 56 A            | 56 A            | 100 A           | 100A            |
| Cycle Life                        | 10 000***       | 10 000***       | 8000***         | 8000***         |

\* When the temperature is below 0 °C or above 40 °C, the performance will be limited.

\*\* ≥2 needs to install expansion pack

\*\*\* Under specific test conditions



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