

YOUR
SMART
ENERGY



SMILE5

RESIDENTIAL SERIES

POWER
5 kW

CAPACITY

2.9 kWh Battery Module Expandable to 17.2 kWh
5.7 kWh Battery Module Expandable to 34.4 kWh
10.1 kWh Battery Module Expandable to 60.6 kWh
13.3 kWh Battery Module Expandable to 80 kWh



reddot design award 2018



product design award 2018



5kW Single Phase Hybrid Inverter

Fast Response

UPS Ability

24/7 Online Monitoring

- S**elf sufficient
- M**odular battery
- I**ntelligent control
- L**ong lifespan
- E**ssential load protected
- 5** kW system

SMILE5



| Model | | | | |
|-----------------------------|-----------------------------|---|------------------------------|-----------------------------|
| SMILE5 | | | | |
| System Specifications | | | | |
| Rated Output Power | | 5000 W | | |
| Rated Output Apparent Power | | 5000 VA | | |
| Capacity Range | 2.9 ~ 17.2 kWh (96% DoD) | 5.7 ~ 34.4 kWh (96% DoD) | 10.1 ~ 60.6 kWh (96% DoD) | 13.3 ~ 80 kWh (100% DoD) |
| Usable Capacity Range | 2.8 ~ 16.5 kWh | 5.5 ~ 33.0 kWh | 9.7 ~ 58.1 kWh | 13.3 ~ 80 kWh |
| Battery Chemistry | | LFP (LiFePO ₄) | | |
| IP Protection | | IP65 | | |
| Warranty | | 5 Years Product Warranty, 10 Years Battery Performance Warranty | | |

| Inverter Technical Specifications | | | |
|--|-------------|---|-----------------------------|
| Model | SMILE5-INV | Rated Output Apparent Power (Backup Port) | 5000 VA |
| Coupling | Hybrid | Max. AC Input Power (Grid Port) | 7500 W |
| Max. PV Input Power | 7500 W | Rated Output Current (Grid Port) | 21.7 A |
| Max. PV Input Current | 15 A / 15 A | Max. AC Output Current (Grid Port) | 21.7 A |
| Max. PV Input Voltage | 550 V | Rated Output Current (Backup Port) | 21.7 A |
| Start-Up Input Voltage | 90 V | Max. AC Output Current (Backup Port) | 21.7 A |
| Rated PV Input Voltage | 360 V | Max. Inverter Efficiency | 96.50% |
| MPPT Number / Max. Input Strings Number per MPPT | 2 / 1 | Backup | UPS |
| MPPT Voltage Range | 70 ~ 540 V | Communication | Ethernet / WIFI |
| Max. PV Short-Circuit Current | 18 A / 18 A | Relative Humidity | 0 ~ 90% (No Condensation) |
| Max. Charging/Discharging Current | 100 A | Dimensions (W x D x H) | 610 x 210 x 627 mm |
| Max. Charging/Discharging Power | 5000 W | Weight | 30 kg |
| Rated Frequency | 50 / 60 Hz | Safety | IEC 62109 |
| Rated Voltage | 230 V | EMC | EN 61000-6-1 / EN 61000-6-3 |
| Rated Output Apparent Power (Grid Port) | 5000 VA | Grid Regulation | AS 4777.2 |

| Battery Technical Specifications | | | | |
|-----------------------------------|-----------------|-----------------|-----------------|-----------------|
| 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 | 100 A |
| Cycle Life | 10 000*** | 10 000*** | 8000*** | 8000*** |

* Max. charge/discharge current derating may occur with changes in temperature and SoC.

** ≥2 needs to install expansion pack.

*** Under specific test conditions.



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