



**YOUR
SMART
ENERGY**



SMILE-T10-HV

RESIDENTIAL SERIES

POWER

10 kW Inverter

CAPACITY

8.2 kWh Battery Modular
Expandable to 49.2 kWh



UPS Ability

Three Phase Output

Low-weight Inverter

More PV Generation

Modular Design

High Compatibility

24/7 Online Monitor

Safe and Reliable(LFP ONLY)

Easy Installation and Expansion

SMILE-T10-HV



| Model | | SMILE-T10-HV |
|-----------------------------|---|--------------|
| System Specification | | |
| Nominal Output Power | 10000 W | |
| Capacity Range | 8.2 ~ 49.2 kWh (95% DoD) | |
| Battery Chemistry | LFP (LiFePO4) | |
| IP Protection | IP65 (Outdoor) / IP21 (Indoor) | |
| Warranty | 5 Year Product Warranty, 10 Year Performance Warranty | |

| Inverter Technical Specification | | | |
|--|--|-----------------------|---------------------------|
| Model | SMILE-T10-HV-INV | Rated Voltage | 380 / 400 V |
| Max. PV Input Power | 16000 W | Phase | Three phase |
| Max. PV Input Current | 2 x 26 A | Backup | UPS |
| Max. PV Input Voltage | 1000 V | Communication | Ethernet / WiFi / 4G |
| MPPT Number/Max. input strings number per MPPT | 2/2+1 | Start Up Voltage | 160 V |
| MPPT Voltage Range | 200 ~ 850 V | Humidity | 15% ~ 85% (No Condensing) |
| Max. PV Short-circuit Current | 2 x 39 A | Dimension (W x D x H) | 580 x 230 x 606 mm |
| Max. Charging/ Discharging Current | 40 A | Weight | 30 kg |
| Max. Charging/ Discharging Power | 10000 W | Safety | IEC 62109, IEC 62040 |
| Rated Frequency | 50 / 60 Hz | EMC | EN61000-6-1/-2/-3/-4 |
| Grid Regulation | VDE 4105, EN 50549, C10/11, NC RfG, G98, TOR Erzeuger, AS4777.2, PEA, UNE_217002, VDE 0126 | | |

| Battery Technical Specification | |
|--|-------------------|
| Module Model | SMILE-BAT-8.2PH |
| 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* |
| Cycle Life | 10000** |
| Battery Modules Connection | 1 ~ 6 in parallel |

* When the ambient temperature is too low or too high, the performance of battery may be limited.
 ** Under specific test conditions.



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