



YOUR
SMART
ENERGY



SMILE-T10-HV

RESIDENTIAL SERIES

POWER

10 kW

CAPACITY

8.2 kWh Battery Module
Expandable to 49.2 kWh



Modular Design

UPS Ability

High Voltage & High Efficiency

Three-Phase Output

160% PV Input

SMILE-T10-HV



Model	SMILE-T10-HV
System Specifications	
Nominal Output Power	10 000 W
Capacity Range	8.2 ~ 49.2 kWh (95% DoD)
Battery Chemistry	LFP (LiFePO ₄)
IP Protection	IP65 (Outdoor) / IP21 (Indoor)
Warranty	5 Years Product Warranty, 10 Years Battery Performance Warranty

Inverter Technical Specifications			
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	Relative Humidity	15% ~ 85% (No Condensation)
Max. PV Short-Circuit Current	2 x 39 A	Dimensions (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 Regulations	VDE 4105, EN 50549, C10/11, NC RfG, G99, TOR Erzeuger, AS 4777.2, PEA, UNE_217002, VDE 0126		

Battery Technical Specifications	
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

* Test condition: Max. 0.5C charge/discharge at 25±2°C.

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

*** Under specific test conditions.



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