

• YOUR  
• SMART  
• ENERGY



# SMILE-T10

RESIDENTIAL SERIES

**CAPACITY** ▶

2.9 kWh modular  
expandable to 23.0 kWh



UPS ability

Outdoor / Indoor

Modular design

24/7 Monitoring



# SMILE-T10



<b>Model</b>	<b>SMILE-T10</b>	
<b>System Specification</b>		
<b>Nominal Output Power</b>	10 000 VA	
<b>Max. DC Input Power</b>	13 000 W*	12 000 W**
<b>Capacity Range</b>	11.5 kWh ~ 23.0 kWh (90% DoD)	
<b>Battery Chemistry</b>	LFP (LiFePO4)	
<b>IP Protection</b>	IP21 (Indoor) / IP65 (Outdoor)	
<b>Warranty</b>	5 Year Product Warranty, 10 Year Performance Warranty	

<b>Inverter Technical Specification</b>				
<b>Model</b>	SMILE-T10-INV		<b>Max. AC Output Current</b>	16.5 A
<b>Max. PV Input Current</b>	12.5/12.5A*	12.5/22A**	<b>Max. AC Input Current</b>	22.7 A
<b>Max. PV Input Voltage</b>	1000 V*	600 V**	<b>Output Power Factor</b>	1 (Adjustable from 0.8 leading to 0.8 lagging)
<b>Max. Short Current</b>	15.2/15.2A*	15.2/27.6A**	<b>Backup</b>	UPS
<b>MPPT Number</b>	2		<b>Display</b>	LCD (in HV50056)
<b>MPPT Voltage Range</b>	200 ~ 850 V*	200 ~ 550 V**	<b>Humidity</b>	15% ~ 85% (No Condensing)
<b>Start-up Voltage</b>	180 V		<b>Dimension (W x D x H)</b>	610 x 236 x 605 mm*   610 x 236 x 655 mm**
<b>Max. Charging / Discharging Current</b>	25 A		<b>Weight</b>	40 kg
<b>Phase</b>	Three-Phase		<b>Grid Regulation</b>	CEI 0-21, VDE-AR-N 4105, TOR D4, G98-1, G100*   AS/NZS 4777.2**
<b>Rated Voltage</b>	400 / 380 V		<b>Safety</b>	IEC 62109-1&-2, IEC 62040-1
<b>Rated Frequency</b>	50 / 60 Hz		<b>EMC</b>	EN61000-6-1 / 2 / 3 / 4   EN61000-4-16 / 18 / 29

<b>Battery Technical Specification</b>	
<b>Module Model</b>	M4856-S
<b>Module Capacity</b>	2.9 kWh
<b>Module Nominal Voltage</b>	51.2 V
<b>Operating Temperature Range</b>	-10 °C ~ 50 °C***
<b>Module Weight</b>	42 kg
<b>Module Dimension (W x D x H)</b>	610 x 236 x 303 mm
<b>Cycle Life</b>	≥ 6000
<b>Max. Charging/Discharging Current</b>	56 A (1C)

<b>High Voltage Control Box Technical Specification</b>	
<b>BMU Model</b>	HV50056
<b>DC Voltage Range</b>	179 ~ 465 V
<b>Nominal Output Current</b>	56 A
<b>Battery Modules Connection</b>	4 ~ 8 M4856-S in series

\*except Australia and New Zealand  
 \*\*only for Australia and New Zealand  
 \*\*\*When the temperature is below 0 °C or above 40 °C, the performance will be limited.



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