





Energy Storage System (ESS) for residential applications -

STORION SERIES SMILE-T10



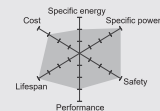
✓ Key Features

-  **UPS ability**
-  **Outdoor/Indoor**
-  **Modular design**
-  **24/7 Monitoring**



Real-time Monitoring

All systems can be monitored by **Web and iOS/Android APP**.



Safest Chemistry

AlphaESS uses Li-phosphate for its excellent safety and long lifespan.

About AlphaESS

As one of the earliest pioneers in energy storage market with lithium iron technology, AlphaESS has a vision to pave the path for everyone in the world to enjoy clean energy one day.

AlphaESS is a multinational company that currently has more than 10'000 residential and commercial systems running in 30 countries globally and its products are accredited by IEC, TÜV, CEC and many other international standards.

All AlphaESS energy systems are integrated with smart energy management solutions. AlphaESS is committed to revolutionize the future energy network through our patented German technologies.



Official Website



Scan to download APP (iOS/Android)



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

Inverter Technical Specification				
Model	SMILE-T10-INV		Max. AC Output Current	16.5 A
Max. PV Input Current	12.5 / 12.5 A*	12.5 / 22 A**	Max. AC Input Current	22.7 A
Max. PV Input Voltage	1000 V*	600 V**	Output Power Factor	1 (Adjustable from 0.8 leading to 0.8 lagging)
Max. Short Current	15.2 / 15.2 A*	15.2 / 27.6 A**	Backup	UPS
MPPT Number	2		Display	LCD (in HV50056)
MPPT Voltage Range	200 ~ 850 V*	200 ~ 550 V**	Humidity	15% ~ 85% (No Condensing)
Start-up Voltage	180V		Dimension (WxDxH)	610 x 236 x 605 mm* 610 x 236 x 655 mm**
Max. Charging/Discharging Current	25 A		Weight	40 kg
Phase	Three-Phase		Grid Regulation	CEI 0-21, VDE4105-AR-N, EN50438, G83/2, G100* AS/NZS 4777.2**
Rated Voltage	400 / 380 V		Safety	IEC 62109-1&-2, IEC 62040-1
Rated Frequency	50 / 60 Hz		EMC	EN61000-6-1, EN61000-6-2, EN61000-6-3, EN61000-6-4, EN61000-4-16, EN61000-4-18, EN61000-4-29

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

High Voltage Control Box Technical Specification	
BMU Model	HV50056
DC Voltage Range	179 ~ 465 V
Nominal Output Current	56 A
Battery Modules Connection	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.

