



# STORION SMILE-T10



<b>Model</b>		<b>Storion-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, VDE4105-AR-N, EN50438, G98, 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.



Headquarter: Alpha ESS Co., Ltd.

☎ +86 (0) 513 8060 6891  
✉ info@alpha-ess.com  
🌐 www.alpha-ess.com  
📍 Jiuhua Road 888, Nantong High-Tech Industrial Development Zone, Nantong City, 226300

Alpha ESS Suzhou Co., Ltd.

☎ +86 (0) 512 6828 7609  
✉ info@alpha-ess.com  
🌐 www.alpha-ess.com  
📍 Level 15, SIPC 158 Wangdun Road SIP Suzhou, 215028

Australia: Alpha ESS Australia Pty. Ltd.

☎ +61 (0) 402 500 520 (Sales)  
+61 1300 968 933 (Technical Support)  
✉ australia@alpha-ess.com  
🌐 www.alpha-ess.com.au  
📍 Suite 1, Level 1, 530 Botany Road, Alexandria, NSW, 2015

Germany: Alpha ESS Europe GmbH

☎ +49 (0) 6103 / 459 160-1  
✉ europe@alpha-ess.de  
🌐 www.alpha-ess.de  
📍 Paul-Ehrlich-Straße 1a, D-63225 Langen, Hessen

Italy: Alpha ESS Italy S.r.l.

☎ +39 (0) 599 239 50  
✉ info@alpha-ess.it  
🌐 www.alpha-ess.it  
📍 Via Loda, 17-41013 Castelfranco Emilia (MO)

Korea: Alpha ESS Korea Co., Ltd.

☎ +82 64 721 2004  
✉ korea@alpha-ess.com  
📍 2F, 19-4, Nohyeong 11-gil, Jeju-si, Jeju-do, Republic of Korea

UK: Alpha ESS UK Ltd.

✉ uk@alpha-ess.com  
📍 Drake House, Long Street, Dursley, gl11 4hh