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Energy Storage System (ESS) for residential applications -

STORION SERIES SMILE-T10



⊘ Key Features

	UPS ability
A	Outdoor/Indoor
	Modular design
(Second second s	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, TUV, 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.



NodelStore	System Specification						
Max. DC Input Power13 000W*12 000W**Capacity Range	Model			Storion-SI	MILE-T10		
AngeILS kWh - 23.0 kWh (90% DoD)Battery ChemistryLFP (LiFePO4)IP 7 totectionIP 7 totectionIP 7 totectionIP 7 totectionWarrantyTotactionWarrantyTotactionMax. PV Input Corrent15.2 / 12.5 / 22.4*Max. AC Output Corrent15.2 / 12.5 / 22.4*Max. AC Input Current15.2 / 12.5 / 22.4*Max. AC Input Current15.2 / 12.5 / 22.4*Max. AC Input Current15.2 / 12.5 / 22.4*Max. Charging/Discharging Current15.2 / 12.5 / 24.*BackupOutput YoitageMax. Schort Current15.2 / 15.2 / A*BackupOutput YoitageMax. Charging/Discharging Current200 ~ 850 V*200 ~ 850 V*PoingenityModelOutput YoitageMax. Charging/Discharging CurrentCurrentOutput YoitageMax. Charging/Discharging CurrentCurrentMax. Charging/Discharging CurrentOutput YoitageMax. Charging/Dischar	Nominal Output Power	10 000 VA					
Battery Chemistry LIPP (LIFePC4) IP Protection IP21 (Indoor) / IP65 (Outdoor) Warranty Stear Product Warranty, 10 Year Performance Warranty Inverter Technical Specification SMILE TIO-INV Max. AC Output Current 16.5 A Max. PV Input Current 12.5 / 12.5 A 12.5 / 22.4 ** Max. AC Input Current 16.5 A Max. PV Input Voltage 1000 V* 600 V** Output Power Factor 1 (Adjustable from 0.8 leading to	Max. DC Input Power	13 000W*			12 000W**		
IP Protection IP21 (Indoor) / IP65 (Outdoor) Warranty IP21 (Indoor) / IP65 (Outdoor) Warranty IP21 (Indoor) / IP65 (Outdoor) Inverter Technical Specification Max. AC Output Current 16.5 A Max. PV Input Current 12.5 / 12.5 A 12.5 / 22.4 ** Max. AC Input Current 16.5 A Max. PV Input Voltage 1000 V* 600 V** Output Power Factor 1 (Adjustable from 0.8 leading to 0.8 leaging) Max. PV Input Voltage 1000 V* 600 V** Output Power Factor 1 (Adjustable from 0.8 leading to 0.8 leaging) Max. Short Current 15.2 / 12.5 / 2.8 ** Backup UPS MPT Number 200 ~ 560 V* Burnidity 15% ~ 85% (No Condensing) Start-up Voltage Range 200 ~ 560 V* Weight 40 kg Max. Charging/Discharging Current 2-× Verigitation Carrent Rated Voltage 1100 · 3-8 × 605 mm Advice 472.4* Advice 472.4* Rated Voltage 1100 · 3-8 × 605 mm Advice 472.4* Advice 472.4* Battery Technical Specification 2-9 × 674 Eartering - 4-16* C + 0* C*16* Advice 472.4* Module Kondel	Capacity Range		1	1.5 kWh ~ 23.0	kWh (90% D	loD)	
Warranty Sear Product Warranty, 10 Year Performance Warranty Invotor Tochnical Specification Max. AC Output Current 16.5 A Model SMILE-TU-INV Max. AC Output Current 16.5 A Max. PV Input Current 12.5 / 12.5 A* 12.5 / 22.A* Max. AC Output Current 16.5 A Max. PV Input Voltage 1000 V* 600 V** Output Power Factor 1 (Adjustable from 0.8 leading to 0.8 leaging) Max. Short Current 15.2 / 15.2 A* 15.2 / 27.6 A* Backup UPS MPPT Number 200 ~ 850 V* 200 ~ 550 V** Barkup LCD (in HV50056) MPPT Voltage Range 200 ~ 850 V* 200 ~ 550 V** Minidity 610 x 236 x 605 mm Max. Charging/Discharging Current 2-5 Weight 610 x 236 x 605 mm Autra-077 are Rated Voltage 10° / 80 / 80 / 80 / 80 / 80 / 80 / 80 /	Battery Chemistry	LFP (LiFePO4)			FePO4)		
Inverter Technical Specification Model SMILE-TU-INV Max. AC Output Current 16.5 A Max, PV Input Current 12.5 / 12.5 A* 12.5 / 12.5 A* Max. AC Output Current 22.7 A Max, PV Input Current 12.5 / 12.5 A* 12.5 / 12.5 A* Max. AC Input Current 14.4 justable from 0.8 leading to 0.8 leaging) Max. Short Current 15.2 / 15.2 A* 15.2 / 27.6 A* Backup UPS MPPT Number 2 Display LCD (in HV50056) MPPT MPT Voltage Range 200 ~ 850 V* 200 ~ 550 V* Backup LCD (in HV50056) MPPT Voltage Range 200 ~ 550 V* Pinension (WxDxH) 610 x 236 x 605 mm MaxB 477.2** Max. Charging/Discharging Current 2-5 × Weight 40 kg MaxB 477.2** Rated Voltage 400 / 380 V Safety IEC 62109-18-2; IEC 6204-18 MaxB 477.2** Rated Frequency 50 / 60 Hz EMC Performation (WxD 40, EBRICULA 40, EBRI	IP Protection	IP21 (Indoor) / IP65 (Outdoor)					
ModelSMILE	Warranty	5 Year Product Warranty, 10 Year Performance Warranty					
Max. PV Input Current 12.5 / 12.5 Å* 12.5 / 12.5 Å* Max. AC Input Current 2.7 A Max. PV Input Voltage 1000 V* 600 V** Output Power Factor 1 (Adjustable from 0.8 leading to 0.8 leading) Max. Short Current 15.2 / 15.2 Å* 15.2 / 27.6 Å** Backup UPP MPT Number 15.2 / 15.2 Å* 15.2 / 27.6 Å** Backup UCD (in H/50056) MPT Number 200 ~ 850 V* 200 ~ 550 V** Hunidity 15.6 / 2.5 Å** Otiput Power Factor MAx. Charging/Discharging Current 200 ~ 550 V** Quieft MottoR 40 / 3.5 Ø* Otiput Power Factor Asses 477.2 ** Max. Charging/Discharging Current 200 / 3.5 Ø* Weight 610 × 2.3 € .5 Ø* Asses 477.2 ** Rated Voltage 400 / 3.5 Ø* Safety IEC 62109-182 IEC 6240-1 Asses 477.2 ** Rated Frequency 50 / 6 / 7.5 Ø* Safety IEC 62109-182 IEC 6240-1 Asses 477.2 ** Module Model 50 / 7.5 Ø* Safety IEC 62109-182 IEC 6240-1 IEC 62109-182 IEC 6240-1 Module Nominal Voltage 50 / 7.5 Ø* Safety IEC 62109-182 IEC 62	Inverter Technical Specification						
Max. PV input Voitage 1000 V* 600 V** Output Power Factor 1 (Adjustable from 0.8 leading to 0.	Model	SMILE-	T10-INV	Max. AC Output Current		16.5 A	
Max. Short Current 15.2 / 15.2 A* 15.2 / 27.6 A** Backup UPS MPPT Number 200 ~ 850 V* 200 ~ 550 V** Humidity 15% ~ 85% (No Contensing) Start-up Voltage Range 200 ~ 850 V* 200 ~ 550 V** Humidity 15% ~ 85% (No Contensing) Start-up Voltage 200 ~ 850 V* 200 ~ 550 V** Humidity 15% ~ 85% (No Contensing) Max. Charging/Discharging Current 25 × Weight 40 kg 40 kg Phase Three-Piase Grid Regulation 261 0-31. VELTIONARN BROOKAS. GENOWOORAND BROKES. GENOWOORAN	Max. PV Input Current	12.5 / 12.5 A*	12.5 / 22 A**	Max. AC Input Current		22.7 A	
MARCH Guine in out	Max. PV Input Voltage	1000 V*	600 V**	Output Power Factor		1 (Adjustable from 0.8 leading to 0.8 lagging)	
MPPT Voltage Range 200 ~ 850 V* 200 ~ 550 V** Humidity 15% ~ 85% (No Condensing) Start-up Voltage 180 ∨ Dimension (WxDxH) 610 x 236 x 605 mm Max. Charging/Discharging Current 25 × Weight 40 kg Phase Three Phase Grid Regulation Askets x077.0° Askets X777.0° Rated Voltage 400 / 380 V Safety IEC 6210.0P4406.4%, IEC 62040-1 Askets X777.0° Rated Voltage 400 / 380 V Safety IEC 6210.0P14.0°, IEC 62040-1 Askets X777.0° Rated Frequency 50 / 50 / E2 EMC IEC 6210.0P14.0°, IEC 62040-1 Askets X777.0° Battery Technical Specification 50 / 50 / E2 EMC IEC 6210.0P14.0°, IEC 62040-1 Module Model 50 / 50 / E2 EMC IEC 6210.0P14.0°, IEC 62040-1 Module Specification 152 / Z2 IEC 6210.0P14.0°, IEC 6210.0P14.0°, IEC 6210.0°, IEC 62	Max. Short Current	15.2 / 15.2 A*	15.2 / 27.6 A**	Backup		UPS	
March Potegor Mango Image Price Dimension (WxDxH) 610 x 236 x 605 mm Max. Charging/Discharging Current 25 A Weight 40 kg Phase Three-Phase Grid Regulation CEI 021 VDE/100-ARE, NO AsN25 4777.2" Rated Voltage 400 / 380 V Safety IEC 62109-18-2, IEC 62040-1 AsN25 4777.2" Rated Frequency 50 / 60 Hz EMC EMISTODE-1, ENTITODE-2, ENTITODE-3, ENTITION-3, ENTITODE-3, ENTITIO	MPPT Number		2	Display		LCD (in HV50056)	
Max. Charging/Discharging Current 25 A Weight 40 kg Phase Three-Phase Grid Regulation CEI 021, VDE4105 ARN, EN00586, GB92, G100 ABN25 4777.2** Rated Voltage 400 / 380 V Safety IEC 62109.182, IEC 62040.1 Rated Frequency 50 / 60 Hz EMC ENE0006-4, ENE1000-4.5, ENE1000-4.2, ENE1000-4.2, ENE1000-4.2, ENE1000-4.3, ENE1000-4.2, ENE1000-4.2, ENE1000-4.3, ENE1000-4.2, ENE1000-4.3, ENE1000-4.3, ENE1000-4.3, ENE1000-4.2, ENE1000-4.3, ENE100-4.3, ENE100-4.3	MPPT Voltage Range	200 ~ 850 V*	200 ~ 550 V**	Humidity		15% ~ 85% (No Condensing)	
India onlight posiciting ingroted in the set of t	Start-up Voltage	18	0V	Dimension (WxDxH)		610 x 236 x 605 mm	
IndexAdd / 380 VSafetyIEC 62109-182, IEC 62240-11Rated Voltage400 / 380 VSafetyIEC 62109-182, IEC 62240-1Rated Frequency50 / 60 HzEMCEMC00-6-1, EM81000-6-1, EM81000-6-3, EM81000-6-4, EM81000-4-6, EM8100-4-6, EM8100-4-4, EM810-4, EM810	Max. Charging/Discharging Current	25	δA	Weight		40 kg	
Nation ContageSo / 60 HzEMCENSTOOD-6-1, ENSTOOD-6-3, ENSTOOD-6-4, ENSTOOD-4-18, ENSTOOD-4-39Battery Technical SpecificationM4856-SModule ModelM4856-SModule Capacity2.9 kWhModule Nominal Voltage51.2 VOperating Temperature Range-10 °C ~ 50 °C***Module Dimension (W x D x H)610 x 236 x 303 mmCycle Life≥ 6000Max. Charging/Discharging Current56 A (1C)High Voltage Control Box Technical SpecificationHV50056DC Voltage Range179 ~ 465 VNominal Output Current56 A	Phase	Three-Phase		Grid Regulation			AS/NZS 4777.2**
Rated FrequencyS0 / 00 H2ENCEN1000-4-18, EN1000-4-18, EN1000-4-29Battery Technical SpecificationModule ModelM4856-SModule Capacity2.9 kWhModule Nominal Voltage51.2 VOperating Temperature Range-10 °C ~ 50 °C***Module Weight42 kgModule Dimension (W x D x H)610 x 236 x 303 mmCycle Life> 6000Max. Charging/Discharging Current56 A (1C)High Voltage Control Box Technical Sectification179 ~ 465 VDC Voltage Range179 ~ 465 VNominal Output Current56 A	Rated Voltage	400 / 380 V		Safety		IEC 62109-1&-2, IEC 62040-1	
Module ModelM4856-SModule Capacity2.9 kWhModule Nominal Voltage51.2 ∨Operating Temperature Range-10 °C ~ 50 °C***Module Weight42 kgModule Dimension (W x D x H)610 x 236 x 303 mmCycle Life≥ 6000Max. Charging/Discharging Current56 A (1C)High Voltage Control Box Technical SectionationHV50056DC Voltage Range179 ~ 465 ∨Nominal Output Current56 A	Rated Frequency	50 / 60 Hz		EMC			
Module Capacity2.9 kWhModule Nominal Voltage2.9 kWhModule Nominal Voltage51.2 VOperating Temperature Range-10 °C ~ 50 °C***Module Weight42 kgModule Dimension (W x D x H)610 x 236 x 303 mmCycle Life≥ 6000Max. Charging/Discharging Current56 A (1C)High Voltage Control Box Technical SectificationHV50056DC Voltage Range179 ~ 465 VNominal Output Current56 A	Battery Technical Specification						
Module Nominal Voltage51.2 ∨Operating Temperature Range-10 °C ~ 50 °C***Module Weight42 kgModule Dimension (W x D x H)610 x 236 x 303 mmCycle Life≥ 6000Max. Charging/Discharging Current56 A (1C)High Voltage Control Box Technical SpecificationH∨50056BMU ModelH∨50056DC Voltage Range179 ~ 465 ∨Nominal Output Current56 A	Module Model	M4856-S					
Operating Temperature Range-10 °C ~ 50 °C***Module Weight42 kgModule Dimension (W x D x H)610 x 236 x 303 mmCycle Life≥ 6000Max. Charging/Discharging Current56 A (1C)High Voltage Control Box Technical SectificationHV50056BMU ModelHV50056DC Voltage Range179 ~ 465 VNominal Output Current56 A	Module Capacity	2.9 kWh			Wh		
Module Weight42 kgModule Dimension (W x D x H)610 x 236 x 303 mmCycle Life≥ 6000Max. Charging/Discharging Current56 A (1C)High Voltage Control Box Technical >= cificationBMU ModelHV50056DC Voltage Range179 ~ 465 VNominal Output Current56 A	Module Nominal Voltage	51.2 V		2 V			
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 HV50056 BMU Model HV50056 DC Voltage Range 179 ~ 465 V Nominal Output Current 56 A	Operating Temperature Range	-10 °C ~ 50 °C***			50 °C***		
Cycle Life ≥ 6000 Max. Charging/Discharging Current 56 A (1C) High Voltage Control Box Technical >ecification BMU Model HV50056 DC Voltage Range 179 ~ 465 V Nominal Output Current 56 A	Module Weight	42 kg					
Max. Charging/Discharging Current56 A (1C)High Voltage Control Box Technical SpecificationBMU ModelHV50056DC Voltage Range179 ~ 465 VNominal Output Current56 A	Module Dimension (W x D x H)	610 x 236 x 303 mm					
High Voltage Control Box Technical Specification BMU Model HV50056 DC Voltage Range 179 ~ 465 V Nominal Output Current 56 A	Cycle Life				≥ 6000		
BMU Model HV50056 DC Voltage Range 179 ~ 465 V Nominal Output Current 56 A	Max. Charging/Discharging Current	56 A (1C)					
DC Voltage Range 179 ~ 465 V Nominal Output Current 56 A	High Voltage Control Box Technical S	Specification					
Nominal Output Current 56 A	BMU Model	HV50056					
	DC Voltage Range	179 ~ 465 V					
Battery Modules Connection 4 ~ 8 M4856-S in series	Nominal Output Current	56 A					
	Battery Modules Connection	4 ~ 8 M4856-S in series					

For further information and order enquiries contact us below

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