

Energy Storage System (ESS) for commercial and industrial applications -

STORION SERIES T50/T100



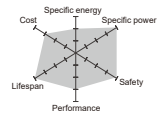
✓ Key Features

-  **UPS ability**
-  **Off-grid ability**
-  **Modular design**
-  **Easy installation and low maintenance**
-  **24/7 Monitoring with local interface**



Real-time Monitoring

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

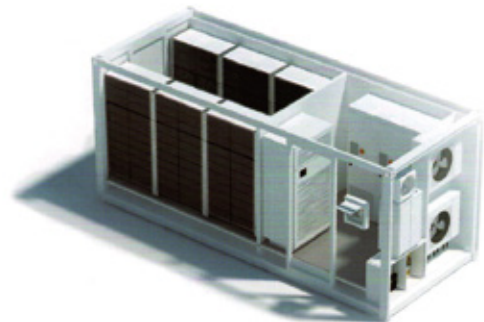


Safest Chemistry

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



We specialize in integrated outdoor proof container solutions and with different demands we can provide diverse solutions. We can equip a 10'GP container with up to 309 kWh energy storage capacity and for a 20'GP container the capacity can be increased to 825 kWh. For more detailed information please contact an AlphaESS sales representative or a technician.



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)



Twitter



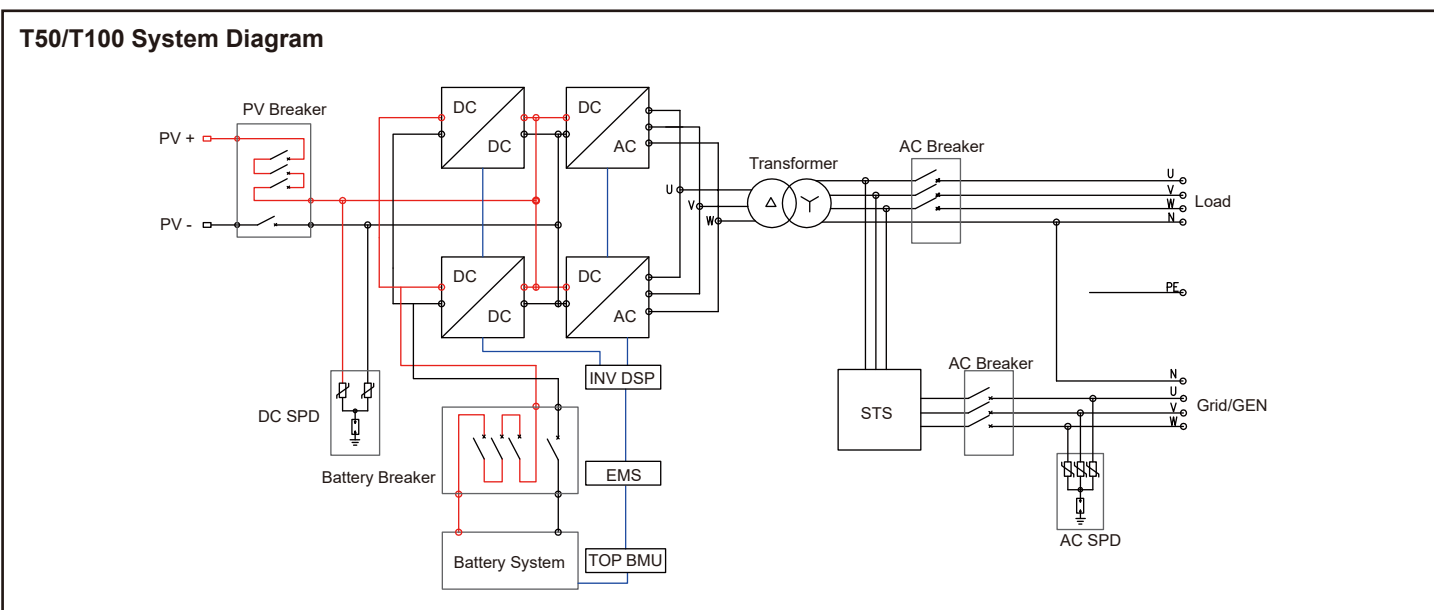
FaceBook

System Specification			
Model	Storion-T50		Storion-T100
Nominal Output Power	50 kW		100 kW
Max. PV Input Power	100 kW		200 kW
Capacity Range	28.7 kWh ~ 1032.2 kWh (90% DoD)		
Battery Chemistry	LFP (LiFePO4)		
IP Protection	IP21/IP65 (in Container)		
Warranty	3 Year Product Warranty, 10 Year Performance Warranty		
Inverter Technical Specification			
Max. PV Input Current	110 A	220 A	Phase
PV Input Voltage Range	520 ~ 900 V		Nominal AC Current
MPPT Number	1		Off-grid Voltage Range
Battery Voltage Range	250 ~ 520 V		Rated Frequency
Max. Charging/Discharging Current	150 A	300 A	Backup
Max. Charging/Discharging Power	50 kW	100 kW	Dimension (W x D x H)
Rated Voltage	400 V		Weight
Grid Voltage Range	340 ~ 460 V		Grid Regulation
Power Factor Range	1 (lagging) ~ 1 (leading)		Safety
			Three-Phase
			72 A 144A
			360 ~ 440 V
			50/60 Hz
			UPS (With STS Module)
			800 x 800 x 2160 mm
			520 kg 750 kg
			AS 4777.2/1.3
			IEC 62109-1&-2
Battery Technical Specification			
Module Model	M48112-S		Module Capacity
Module Weight	65 kg		Module Nominal Voltage
Module Dimension (W x D x H)	450 x 580 x 165 mm		Cycle Life
Max. Charging/Discharging Current	112 A (1C)		Operating Temperature Range
			5.7 kWh
			51.2 V
			≥ 6000
			-10 °C ~ 50 °C*
High Voltage Control Box Technical Specification			
BMU Model	HV900112 (TOP BMU required with more than one cluster)		
DC Voltage Range	200 ~ 900 V		
Nominal Output Current	112 A		
Battery Modules Connection	5 ~ 9 M48112-S in series in one cluster		
Clusters Connection	Max. 20 clusters in parallel		

*When the temperature is below 0 °C or above 40 °C, the performance will be limited.



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