

ST5015kWh-2500kW-2h-US

ST5015kWh-1250kW-4h-US

PowerTitan 2.0 Liquid Cooled Energy Storage System

NEW



OPTIMAL COST

- Intelligent liquid-cooled temperature control system to optimize the auxiliary power consumption
- Pre-assembled, no battery module handling on site, transportation of complete system



SAFETY AND RELIABLE

- Electrical safety management, overcurrent fast breaking and arc extinguishing protection
- The electrical cabinet and battery cabinet are separated to prevent thermal runaway



EFFICIENT AND FLEXIBLE

- High-efficiency heat dissipation, increase battery life and system discharge capacity
- Front single-door-open design, supporting back to back layout drawing
- Function test in factory, limited on-site work, accelerate commissioning process



CONVENIENT O&M

- One-click system upgrade
- Automatic coolant refilling design
- Online intelligent monitoring



Product Name	ST5015kWh-2500kW-2h-US	ST5015kWh-1250kW-4h-US
DC side		
Cell type	LFP 3.2 V / 314 Ah	
Battery configuration	416S12P	
Nominal capacity	5015 kWh	
Nominal voltage range	1123.2 V - 1497.6 V	
AC side		
Nominal AC power	210 kVA * 12	210 kVA * 6
AC current distortion rate	< 3 % (Nominal Power)	
DC component	< 0.5 %	
Nominal AC voltage	690 V	
AC voltage range	607 V - 759 V	
Termination (LV)	352 A * 3 Phase * 6	352 A * 3 Phase * 3
Power factor	> 0.99 (Nominal Power)	
Adjustable range of reactive power	- 100 % to 100 %	
Nominal frequency	60 Hz	
Isolation method	Transformerless	
System parameter		
Dimension (W * H * D)	6058 mm * 2896 mm * 2438 mm 238.5" * 114.0" * 96.0"	
Weight	42500 kg 93696.5 lbs	42000 kg 92594.0 lbs
Degree of protection	Type 3S	
Anti-corrosion degree	C3	
Operation ambient temperature range	- 30 °C - 50 °C (> 45 °C Derating) -22 °F - 122 °F (> 113 °F Derating)	
Operation humidity range	0 % - 100 % (Non-condensing)	
Maximum operation altitude	3000 m 9842.5 ft	
Temperature control method	Intelligent Liquid Cooling	
Fire suppression system	NFPA 68 compliance vent panel, smoke and heat, detectors, Mini FACP(Default) Sprinkler, sound beacon, NFPA 69, compliance ventilation system, Flammable Gas detector (Optional)	
Communication	Ethernet	
Standard	UL 9540A, NFPA 855, NFPA 68, NFPA69 (with optional purchase) IEEE1547: 2018, UL1973,UL1741SB, UL9540	



MVS5000-LV-US

MV Turnkey Solution for **PowerTitan 2.0** MVS Liquid Cooling Energy Storage System

NEW



Product Name	MVS5000-LV-US
MV transformer	
Rated power	5140 kVA
MV / LV voltage	34.5 kV / 0.69 kV
Transformer vector	Dy1 (standard)
Windings	2 windings
Rated frequency	60 Hz
Impedance	9 % (± 7.5 % , IEEE tolerance)
Efficiency standard	99 % @ 100 % load
Material of winding (MV / LV)	Aluminum / Aluminum
Legged core design	3 Legged Core Design
High voltage configuration	Loop-feed, Dead Front
Overcurrent protection	Expulsion fuses in series with Partial-Range Current-Limiting Fuses
Temperature control method	KNAN
Insulation fluid	Degradable oil (standard)
Smart control cabinet	
Protection	AC Breaker
Surge protection	Type II
AC insulation detection	Support
Cooling method	Air cooling and HVAC
UPS	15 min (standard) 2 / 3 / 4 h (optional)
General data	
Dimensions (W * H * D)	6058 mm * 2896 mm * 2438 mm 238.5" * 114.0" * 96.0"
Weight	15300 (± 500) kg 33730 (± 1102) lbs
Cable entry	Bottom Entry
Degree of protection	Type 3S
Anti-corrosion degree	C4 (standard)
Operating ambient temperature range	-40 °C - 60 °C -40 °F - 140 °F > 40 °C (104 °F) derating (standard) ; > 45 °C (113 °F) derating (optional)
Operation humidity range	0 % - 100 % (non-condensing)
Maximum operation altitude	3000 m 9842.5 ft
Standard	UL891,IEEE C57.12.00,IEEE C57.12.80,IEEE C57.12.90
Communication	Ethernet, Optical fiber, RS485

* 15min UPS only supplies power for the control and communication devices in the MVS

** 2 / 3 / 4 h UPS supplies power for the control and communication devices in the the MVS, and the ventilation system in the battery container

