

# Titan-S100/215/100-WS

## Outdoor Cabinet Air Cooling PV Energy Storage System

Titan-S100/215/100-WS is a new outdoor cabinet air-cooled PV energy storage system developed by LEOCH. It adopts ALL-in-one integrated design, integrating battery storage unit, intelligent converter, battery management system, STS, PV controller, temperature control system, fire protection system and energy management system. It meets the requirements of grid-connected, off-grid operation and automatic switching between grid-connected and off-grid, and has the features of high efficiency of charging, discharging and thermal management, multiple safety designs and small footprint, supporting various EMS energy strategies, and participating in the power market trading (VPP). It can be used in various industrial and commercial application scenarios, such as peak shaving, emergency power backup, demand control, new energy generation, optical storage and charging, and microgrid.



### Highly integrated

ALL-in-one integrated design, simple installation and maintenance, saving space and costs



### Safe and reliable

multiple fire protection design, cell level temperature detection + PACK level + cabinet level aerosol fire extinguishing + water fire protection + explosion-proof pressure



### Modular design

More flexible configuration, multiple parallel connections, fast response, and ensuring continuous uninterrupted power supply for critical loads



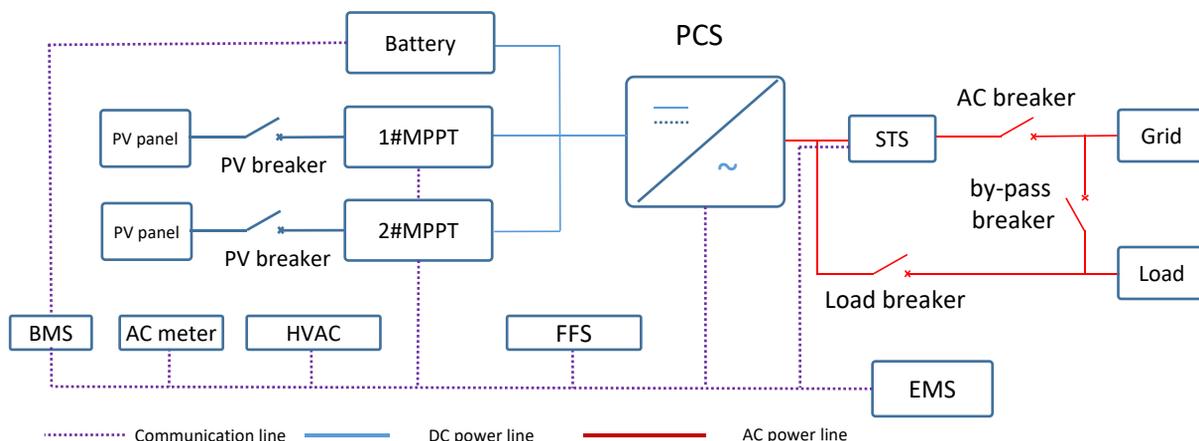
### Intelligent operation and maintenance

The entire network's energy storage is visible and manageable, improving system reliability, stability, operation and maintenance efficiency, and optimizing system performance



### Rich configuration

supports simultaneous access to load, battery, power grid or diesel generator, and photovoltaic



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System model	Titan-S100/215/100-WS
<b>Battery Parameters</b>	
Cell Type	LFP3.2V/280Ah
Battery PACK Type	1P16S
Cluster Configuration	1P240S
Nominal Energy	215.04kWh
Battery Voltage Range	672V~864V
Charge-Discharge Efficiency	≥95 %
<b>AC Parameters (Grid mode)</b>	
Rated Power	100kW
Rated Voltage	400V,3P4W
Rated Current	144A
Overload Capacity	110% long term
Rated Grid Frequency	50Hz/60Hz self-adaption
Power Factor	0.99
Power Factor Range	1 (lead) ~ 1 (lag)
THDi	<3% (Rated power )
DC Component	0.5%
<b>AC Parameters (Islanded mode)</b>	
Rated Power	100kW
Rated Voltage	400V, 3P4W
Rated Current	144A
Rated Frequency	50Hz/60Hz
THDu	≤3% (linear load)
Three-phase unbalance	100%
<b>System Parameters</b>	
Charge and Discharge Rate	≤0.5C
Dimensions (W*D*H)	1820*1250*2450(mm)
Weight	About 2.9 t
IP Level	IP54
Altitude	2000 m (>2000m derate for use)
Operating Temperature	-25°C~55°C
Relative Humidity	0~95% (no condensation)
Operating Noise	≤75dB
Cooling method (PCS)	Intelligent air cooling
Cooling method (battery compartment)	Air cooled air conditioner
Fire Fighting System	PACK level + cabinet level aerosol fire extinguishing + water fire fighting + explosion- proof pressure relief
Communication Interface	RS485, CAN, Ethernet, dry contact
Crtifications	UN38.3
<b>STS Parameters (optional)</b>	
Rated Power	200kW (grid side 200kW, load side 100kW)
Switching Time	≤20ms
<b>Photovoltaic parameters (optional)</b>	
Maximum photovoltaic input power	50kW/100kW
PV Input voltage range	200~660V
Number of MPPTs	1/2
Number of photovoltaic input channels	1/2
Maximum input current	100A/200A