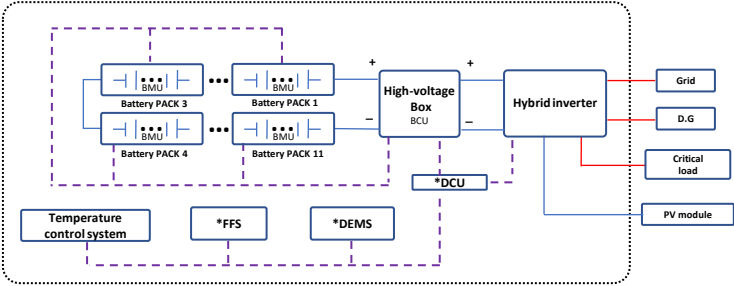


Air-Cool PV Energy Storage System – Hybrid Inverters
Titan-S50/221/100-WS



- Easy to Install
- Flexible deployment
- Safe and Reliable
- Rich configuration



..... Leoch Equipment - - - - - Communication Line ——— DC Power Line ——— AC Power Line
*DEMS: Dynamic Environment Monitoring System; *FFS: Fire Fighting System; *DCU: Display & Control Unit

System Model	Titan-S50/221/100-WS
Battery Parameters	
Cell Type	LFP3.2V, 314Ah
Battery PACK Type	1P20S
Cluster Configuration	1P220S
Nominal Energy	221kWh
Nominal Battery Voltage	704V
Battery Voltage Range	616V ~ 792V
Charge and Discharge Rate	0.5C
Battery Cabinet Certification	IEC62619, IEC61000, UN38.3
AC Parameters	
Type of Grid Connection	3/N/PE
Rated Power	50kW
Rated Voltage	AC 220V / 380V, 230V / 400V
Rated Current	72A
Rated Grid Frequency	50/60Hz
THD	≤3%
Hybrid Inverter Certification	IEC62477, IEC61000, IEC62920, IEC62109, EN55011, EN50549, G99, AS 4777,VDE 4110, VDE 4105, TOR-R25-TypeA & TypeB
System Parameters	
Dimensions (W*D*H)	Hybrid inverter: 530*290*880mm; Battery cabinet: 1170*1456*2100mm
Weight	Hybrid inverter: 73kg; Battery cabinet: 2233kg
IP Level	Hybrid inverter: IP66; Battery cabinet: IP55
Cooling Method	Hybrid inverter: Intelligent fan ; Battery cabinet: air conditioner
Fire Fighting System	Cabinet level aerosol fire extinguishing + water fire fighting + explosion- proof pressure relief
Grade of Corrosion Protection	C3
Relative Humidity	5-95% (no condensation)
Operating Temperature	-20℃~50℃
Altitude	≤2000m(Derating over 2000 meters)
Communication Interface	RS485, Ethernet
Communication Protocol	Modbus RTU, Modbus TCP/IP
PV Parameters	
PV Input Power	100kW
MPPT Voltage Range	150V ~ 850V
Maximum Input Current	4×40A
Number of MPPTs	4
Number of PV Input Channels	8
Hybrid Inverter Automatic Switching Function Between On-grid and Off-grid	
Switching Time	<10ms

Application Scenario

Backup Power

Solar + Battery ESS

Peak Shaving

SME Factory ESS

On/Off-Grid Hybrid Operation

Commercial & Retail Buildings

Frequency Regulation

Microgrid Application

Telecom Backup Solution

Energy Cost Optimization