

Energy Storage System

Ener Hexon® Explore 5117 ESS is highly integrated with lithium battery, BMS, grounding system, power distribution system, temperature control system and fire protection system. The rated DC voltage is 1305.6V DC, which can provide peak-shaving, grid frequency adjustment, power expansion, backup power supply and other functional services to help customers reduce electricity costs to the greatest extent. It is recommended to be used in industrial and commercial user side, energy storage and charging, super-fast charging station and other scenarios.

Ener Hexon® Explore 5117



Features

- Standard 30-foot container design to meet the transportation needs for land and sea;
- 280AhPACK+ Pack-level targeted fire extinguishing + Pack-level fan speed control;
- 1500V DC, 20 years of normal use;
- Patented bionic tree runner design, intelligent temperature control system, system temperature difference $\leq 5^{\circ}\text{C}$, battery cycle life increased by 12%;
- Main control cabinet, integrated DC confluence, power distribution, communication and control;
- Cell-level fully automatic fire protection, integrating detection, fire extinguishing, combustible gas detection, smoke prevention, and explosion venting functions;
- The module uses a new type of non-metallic material, the blocking level is 5VA with the characteristics of high temperature resistance, long-life, and excellent insulation ability, which effectively inhibits thermal runaway and electrical insulation problems;
- Black start.

Technical Parameters

Model	Ener Hexon® Explore 5117	
Battery parameters	Cell type	LFP-3.2V-280Ah
	Rated power[kWh]	5117.95
	Charge/Discharge ratio	≤0.5CP
	Battery voltage range[V]	1142 ~ 1468.8
System Parameters	BMS	Level 3
	Size (width * Height * depth)[MM]	9125*2896*2438 (30ft)
	Weight[T]	~52
	Ingress protection	IP54
	Operating temperature range	-30 ~ +50°C (>45°C derating)
	Operating humidity range	0 ~ 95%RH (non-condensing)
	Auxiliary electrical parameter	25kW-380V&480V/50Hz
	Fire protection	S-type aerosol/HFC-227EA/perfluorohexanone
	Installation	Outdoor installation
	Anticorrosion grade	C3 (C4\C5 optional)
	Altitude	Within 3000 m
	Working condition	Up to 2 charges and 2 discharges per day
	System communication interface	Ethernet/RS485
	External system communication protocol	Modbus TCP/IEC61850/Modbus RTU
Certification	GB/T 36276、GB/T 34131、UL 1973、UL 9540A、IEC 62619、UN 38.3	

■ Product continues to iterate, specifications may be updated without prior notice.

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