





Grid Type High Voltage Level Reserve Energy System

PCS installed in the battery compartment, no main transformer, reduce the initial investment of equipment, small footprint, reduce the on-site installation and commissioning.

Product Characteristics

-  System Simplicity
-  High Efficiency
-  Quick Response
-  Mesh Advantage



Description of configuration:
The PCS unit and PACK are in modular form, with optional number of cells and cascades.
The specific configurations can be adjusted according to assessment requirements

Product Parameters

System input voltage	
System rated voltage	AC 6~35kV
Rated frequency	50Hz(±5Hz)
Grid-connected performance	
Junction current THD	< 2%(rated power point)
Reactive compensation power factor adjustment range	-1~+1
Grid-connected performance	
Energy conversion efficiency of energy storage system	System efficiency ≥91%
PCS conversion efficiency	Under rated operating conditions, PCS efficiency is not less than 98.5%
Battery energy conversion efficiency	≥94%
Overload capacity (normal)	110% rated current, continuous operation of not less than 10min; The current on the AC side is 120% of the rated current, and the running time is not less than 1min.
Overload capacity	300% rated current, continuous operation of not less than 10s
Cooling mode	Intelligent water cooling
Power response time	≤20ms
Reactive power response time	≤5ms

	TYPICAL CONFIGURATION 1C、0.25C			TYPICAL CONFIGURATION 0.5C		
	For 40 MWh project - 1C - 1 set required	For 50 MWh project - 1C - 2 sets required	For 60 MWh project - 0.25C - 1 set required	For 60 MWh project - 2 sets required	For 80 MWh project - 2 sets required	For 100 MWh project - 2 sets required
Rated power	40MW	25MW	15MW	15MW	20MW	16.67MW
Rated capacity	40MWh	25MWh	60MWh	30MWh	40MWh	33.34MWh
Voltage for grid connection	35kV	35kV	35kV	35kV	35kV	35kV
Rated efficiency	91.2%	91%	91%	91%	91%	91%
Number of compartments	Total 11 sets	Total 21 sets	Total 21 sets	Total 21 sets	Total 21 sets	Total 30 sets