

Tower Crane Type Energy Storage Converter

By adopting a three-level topology structure, bidirectional conversion from DC to AC and AC to DC can be achieved. It can convert AC power into DC power to charge the battery, or convert DC power into AC power to supply power to the load or feedback to the grid.

Product Core Highlights



Off grid switching time <math>< 20\text{ms}</math>



Maximum efficiency >99.1%



Supports parallel operation, diesel power connection, and weak grid connection with $\text{SCR} < 1.5$



Product Model	PCS1-250K	PCS1-500K	PCS1-630K
DC side parameters			
DC voltage range	580-900V		
Maximum input current	459A	917A	1155A
Parameters of AC grid connection			
Rated AC power	250kVA	500kVA	630kVA
Maximum power	275kVA	550kVA	693kVA
Rated grid voltage	400V ± 15%		
Rated grid frequency	50Hz/60Hz ± 2.5Hz		
Alternating current harmonics	< 3% (额定功率时)		
DC component of AC current	< 0.5%In		
Power factor	± 1		
AC off-grid parameters			
Rated AC power	400V ± 15%		
Alternating voltage harmonic	< 3% (线性负载)		
DC voltage component	< 0.5%Un(线性负载平衡)		
Rated grid frequency/grid frequency range	50Hz/45-55Hz		
System parameter			
Mode of isolation	非隔离		
Maximum efficiency	98.5%	98.7%	99.10%
Cooling mode	强制风冷		
Protection class	IP20		
Dimension (W * H * D) mm	800*1900*800mm	900*1900*900mm	1100*1900*900mm
Mode of communication			
Host computer communication mode	ModBusTCP/RTU,CAN2.0		
Communication interface	网口、RS485、CAN		