

PRODUCT INTRODUCTION

Power Conversion System

● CRRC-APCS-1725



Efficient and Stable

Advanced ANPC three-level topology, max. efficiency $\geq 99\%$;
DC1500V system with wide input voltage range
High system reliability, long-lasting 1.1 times overload operation, 1.2 times overload operation for no less than 10min

Intelligent O&M

Modular design, easy for maintenance
Multiple parallel connection, flexible power expansion
Intelligent online debugging and upgrading, fault recording and fast locating

Flexible Application

C5 anti-corrosion degree, adjust to humid environmental conditions
Applicable to a variety of energy storage application scenarios (user side, grid side and power generation side)
Applicable to harsh environments such as high temperature, high humidity and high altitude

Grid Friendly

Support high/low voltage ride through
Comprehensive grid support functions (black start, SVG, VSG, PQ, VF, etc)
Equipped with multiple communication interfaces for flexible networking

AC side				
Grid connection	Nominal power	1725kW	1575kW	1375kW
	Max.AC output current	1588A	1588A	1588A
	Allowable grid voltage range	586.5-759V	535.5-693V	467.5-605V
	Nominal grid frequency	50Hz/60Hz		
	Power factor at nominal power/Adjustable power factor	≥ 0.99 /(1 leading-1 lagging)		
	Harmonic(THDi)	<3%		
	Access method	three-phase three-wire		
Off grid	Nominal output voltage	690V	630V	550V
	Nominal output frequency	50HZ		
	Nominal output power	1725kW	1575kW	1375kW
	AC output wiring method	three-phase three-wire		
	Max. efficiency	$\geq 99\%$		
DC side				
	DC voltage range	1000V~1500V		
	Max.DC current	1936A	1767A	1543A
Performance date				
	Cooling method	Air cooling		
Environmental requirements				
	Operating ambient temperature range	-35 C~60 C (derating over 45 C)		
	Allowable relative humidity range	0~100%		
	Degree of protection	IP55		
	Max.operating altitude	4500m(derating over 3000m)		
Protection				
	DC protection	Load break switch + fuse		
	AC protection	Circuit breakers		
	Surge protection	DC Type II /AC Type II		
	Grid monitoring/ground fault monitoring	Yes/Yes		
	Insulation monitoring	Yes		
	Overheating protection	Yes		
Display and communication				
Converter-dispatch	External communication port	Ethernet		
	External communication port	Modbus-RTU/Modbus-TCP;IEC 61850(GOOSE)		
Converter-BMS	External communication port	CAN/RS485		
	External communication port	CAN2.0/Modbus485		
Others				
	Dimensions(W*H*D)	1596mm*2400mm*1790 mm		
	Weight	≤ 1300 kg		
	Compliance	CE, IEC 62477-1, IEC 61000-6-2, IEC 61000-6-4,GB/T 34120,GB/T 34133		