

PRODUCT INTRODUCTION

Power Conversion System

● **CRRC-APCS-5000**



**Efficient and Stable**

Advanced ANPC three-level topology, max. efficiency ≥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;  
Equipped with explosion venting device, higher system safety;

**Intelligent O&M**

Modular design, easy for maintenance  
Multiple parallel connection, flexible power expansion  
Intelligent online debugging and upgrading, fault recording and fast locating  
Remote EMS and local HMI  
Dual circulation heat dissipation and fire warning

**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)  
IP65 protection degree, applicable to various harsh environments

**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  
Grid resonance protection

AC side	
Nominal power	1250kVA*4
Max.AC output current	1150A*4
Nominal operating voltage	690V
Allowable grid voltage range	586.5-759V
Nominal grid frequency	50Hz/60Hz
Power factor at nominal power/Adjustable power factor	≥0.99/(1 leading-1 lagging)
Harmonic(THDi)	<3%
Max. efficiency	≥99%
DC side	
Max.DC voltage	1500V
Full power voltage range	1000V ~ 1500V
Max. DC current	1403A*4
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
Others	
Operating ambient temperature range	-40℃ ~60℃ ( derating over 45℃ )
Allowable relative humidity range	0 ~ 100%
Max.operating altitude	4500m(derating over 3000m)
Degree of protection	IP65
Cooling method	Forced air cooling
Dimensions(W*H*D)	2800mm*2265mm*1965mm
Weight	850kg*4
Communication	RS485/Ethernet/CAN
Standard compliance	CE, IEC 62477-1, IEC 61000-6-2, IEC 61000-6-4,GB/T 34120,GB/T 34133