

## PRODUCT INTRODUCTION

Power Conversion System

●CRRC-APCS-3450



### 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

### 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)
- 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

AC side				
Nominal powe	3450kW	3150kW	2750kW	2500kW
Max.AC output currentr	3175A	3175A	3175A	2301A
Nominal operating voltage	690V	630V	550V	690V
Allowable grid voltage range	586.5-759V	535.5-693V	467.5-605V	586.5-759V
Nominal grid frequency	50Hz/60Hz			
Power factor at nominal power/Adjustable power factor	≥0.99/(1 leading-1 lagging)			
Harmonic(THDi)	<5%			
Max. efficiency	≥99%			
DC side				
Max.DC voltage	1500V			
Full power voltage range	1000V~1500V	915V-1500V	800V-1500V	1000V~1500V
ax.DC current	3872A	3864A	3858A	2806A
Protection				
DC Protection	Load break switch + fuse protector			
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)	2716mm*2279mm*1696mm			
Weight	≤2450kg			
Communication	RS485/Ethernet/CAN			
Standard compliance	CE, IEC 62477-1, IEC 61000-6-2, IEC 61000-6-4,GB/T 34120,GB/T 34133			