

PRODUCT INTRODUCTION

Power Conversion System

●CRRC-APCS-2500



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 power	2500kW
Max.AC output current	2301A
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	2806A
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	Liquid cooling
Dimensions(W*H*D)	1130×2530×1650mm
Weight	≤1650kg
Communication	RS485/Ethernet/CAN
Standard compliance	CE, IEC 62477-1, IEC 61000-6-2, IEC 61000-6-4,GB/T 34120,GB/T 34133