PV smart substation

PSS3200~8960K

Safe

- Multi-level fire protection
- Intelligent safety interlocking
- Robust lightning protection

Smart

- Intelligent temperature control
- Real-time insulation monitoring
- Supports online surge arrester diagnostics and non-volatile fault logging

Reliability

- Balanced power supply system
- Uninterruptible power supply
- High-Efficiency natural cooling



Technical Specification

Items	PSS3200K	PSS6400K	PSS8960K
LV Panel			
Rate voltage	800Vdc		
Number of branch inputs	MCCB: 350A / 800Vac / 3p		
	10pcs	10*2pcs	14*2pcs
Number of main outputs	ACB:3200A/3P 800VaC		ACB:4000A/3P 800Vac
	1pcs	2*1pcs	
No. of PV strings per MPPT	1pcs	2pcs	
Transformer			
Rated power	3200kVA@40°C	6400kVA@40°C	8960kVA@40°C
Max. power	3520kVA@30°C	7040kVA@30°C	9856kVA@30°C
LV voltage	800Vac		
Max. input current at nominal voltage	2541A	2541A*2	3557A*2
MV voltage	10~35kV		
Efficiency*	≥99%		
Impedance	7%(±10%)	8%(±10%)	9.5%(±10%)
Transformer type	Oil-immersed		
Oil type	Mineral oil (PCB free)		
Winding material	Al/Al		
Cooling method	ONAN(Oil Natual Air Natural)		
Vector group	Dy11	Dy11y11	
Insulation class	A		
MV Switchgear			
Scheme	DCV		
Insulation	SF6/SF6 free		
Rated voltage	10~35kV		
Rated current	630A		
Rated frequency	50Hz / 60Hz		
Protection			
AC input protection	Yes		
Transformer protection	Oil-temperature, Oil-level, Oil-pressure		
Relay protection	50 / 51, 50N / 51N		
LV surge protection	AC Type II		
General			
Dimensions (W*H*D)	6058*2896*2438mm		
Weight*	<18T	<21T	<25T
IP grade	IP54		
Auxiliary transformer	5kVA, Dyn11, 800V/380V		
Operating temperature range	-20°C~50°C		
Operating altitude	1000m (Standard) / >1000m (Optional)		
Allowable relative humidity range (non-condensing)	0~100%		
Communication	Modbus TCP, Configured with KM-ACU		
Compliance	IEC 60076, IEC 62271-200, IEC62271-202, IEC61439-1, EN50588-1		

- *Efficiency data under laboratory test conditions.
- *Weight data under laboratory test and no accessories.
- Specifications are subject to change without prior notice.