

1500V PCS-MV Substation

TBVS-2750K-TH/3150K-TH/3450K-TH



Reasonable and efficient layout, improve space utilization



Tri-level topology energy storage converter with 99.03% efficiency



Integration of secondary circuit, unified measurement, protection and communication



Boost application type covers 35kV and below voltage level



"Change" "Boost" - body design, to achieve integrated product delivery



Support 110% overload, 50C no derating, high system stability



Model	TBVS-2750K-TH	TBVS-3150K-TH	TBVS-3450K-TH
DC			
Maximum DC voltage		1500V	
voltage range	800-1500V	915- 1500V	1000-1500V
Maximum DC current	3858A	3864A	3872A
Grid-connected output			
Rated Power	2750kW	3150kW	3450kW
Maximum capacity	3025kVA	3465kVA	3795kVA
Rated Voltage	550V	630V	690V
Voltage range		-15% ~ 10%(Range can be set)	
Rated Frequency		50Hz/60Hz	
Maximum output current		3176A	
Power factor		-1(overrun) ~ 1(lag)	
THDI		<3%(rated power)	
Off-grid output			
Rated Voltage	550V	630V	690V
Maximum output current		3176A	
THDU		<3%(linear load)	
Rated Frequency		50Hz/60Hz	
Efficiency			
Maximum efficiency		99.03%	
Transformer paramete			
Rated capacity	2750kVA	3150kVA	3450kVA
Voltage Ratio	0.55/(6-35) kV	0.63/(6~35)kV	0.69/(6-35) kV
Transformer Type		Dry transformer/oil transformer	
Basic parameters			
Protection Grade		IP54	
Operation ambient temperature		-15°C~50°C(>50C derating operation)	
Relative humidity		≤95%RH, non-condensing	
Cooling method		Intelligent air cooling	
Maximum working altitude		4000 m (over 2000 m, it will operate in derating)	
Communication Interface		RS485 / Ethernet	
Communication protocol		Modbus-RTU/Modbus-TCP/IEC61850/IEC104	