

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		