

PWS1-1725KTL-H-EX-XMY-O

Power Conversion System



Features



Flexible Configuration

- Modular design with up to 8 modules
- Direct interconnection with 690Vac
- Power range: 215kW-1.72MW



High Efficiency & Stability

- Maximum efficiency can reach 98.5%, @ DC 1070V
- Multi-string technology for better battery safety and performance.



Extensive Use

- Automatic operation strategy of peak shaving and load shifting
- Outdoor NEMA3R Cabinet



Safety & Compatibility

- Fast response time less than 20ms
- Grid-support function built-in
- Global grid certified & listed

Specification

PWS1-1725KTL-H-EX-XM1-O

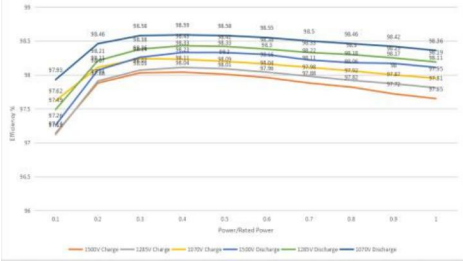
AC parameters

Nominal AC power	215kVA	430kVA	645kVA	860kVA	1075kVA	1290kVA	1505kVA	1725kVA
AC connection	Three-phase three-wire (3P3W)							
Overload Capability	237kVA	473kVA	710kVA	946kVA	1183kVA	1419kVA	1656kVA	1898kVA
AC voltage	690(-15%~10%)V							
AC frequency	50/60 (-5~5) Hz							
THDi	≤3%							
AC PF	-0.9~0.9							

DC parameters

Max DC power	237kW	473kW	710kW	946kW	1183kW	1419kW	1656kW	1898kW
DC voltage range	1000~1500V (full power charging)							
Full load voltage range	1070~1500V (full power discharging)							
Number of DC branch	1							
Number of modules	1	2	3	4	5	6	7	8
Maximum DC current every branch	208A	416A	624A	832A	1040A	1248A	1456A	1664A
Voltage regulation accuracy	≤±1%							

System parameters

Efficiency curve								
Peak efficiency (with auxiliary source)	98.5%							
Size (W*H*D)	2200*2160*1300 mm							
Weight	1549kg	1642kg	1735kg	1828kg	1921kg	2014kg	2107kg	2200kg
Noise	< 75dB							
Protection	IP54							
Operating temp.	-20 ° C to 60 ° C (De-rating over 45 ° C)							
Cooling	Air cooling							
Humidity (storage)	0~95% (No condensing)							
Max altitude	3000m (De-rating over 3000 m)							

Connection parameters

Communication	RS 485, Ethernet, CAN
Protocol	Modbus TCP/RTU, IEC104, IEC61850
Certification	EN50549-2, VDE4110, VDE4120, G99, IEC62477/61000/62109

Specification

PWS1-1725KTL-H-EX-XM4-O

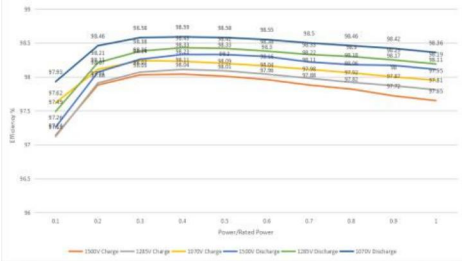
AC parameters

Nominal AC power	215kVA	430kVA	860kVA	1290kVA	1725kVA
AC connection	Three-phase three-wire (3P3W)				
Overload Capability	237kVA	473kVA	946kVA	1419kVA	1898kVA
AC voltage	690(-15%~10%)V				
AC frequency	50/60 (-5~5) Hz				
THDi	≤3%				
AC PF	-0.9~0.9				

DC parameters

Max DC power	237kW	473kW	946kW	1419kW	1898kW
DC voltage range	1000~1500V (full power charging)				
Full load voltage range	1070~1500V (full power discharging)				
Number of DC branches	4				
Number of modules	1	2	4	6	8
Maximum DC current every branch	208A	416A	416A	416A	416A
Voltage regulation accuracy	≤±1%				

System parameters

Efficiency curve					
Peak efficiency (with auxiliary source)	98.5%				
Size (W*H*D)	2200*2160*1300 mm				
Weight	1549kg	1642kg	1828kg	2014kg	2200kg
Noise	< 75dB				
Protection	IP54				
Operating temp.	-20 ° C to 60 ° C (De-rating over 45 ° C)				
Cooling	Air cooling				
Humidity (storage)	0~95% (No condensing)				
Max altitude	3000m (De-rating over 3000 m)				

Connection parameters

Communication	RS 485, Ethernet, CAN
Protocol	Modbus TCP/RTU, IEC104, IEC61850
Certification	EN50549-2, VDE4110, VDE4120, G99, IEC62477/61000/62109

Specification

PWS1-1725KTL-H-EX-XM8-O

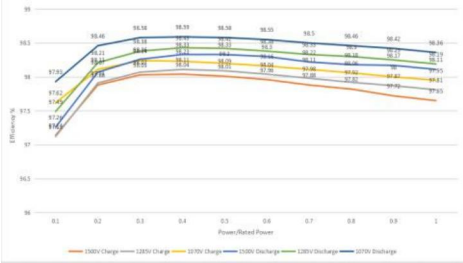
AC parameters

Nominal AC power	215kVA	430kVA	645kVA	860kVA	1075kVA	1290kVA	1505kVA	1725kVA
AC connection	Three-phase three-wire (3P3W)							
Overload Capability	237kVA	473kVA	710kVA	946kVA	1183kVA	1419kVA	1656kVA	1898kVA
AC voltage	690(-15%~10%)V							
AC frequency	50/60 (-5~5) Hz							
THDi	≤3%							
AC PF	-0.9~0.9							

DC parameters

Max DC power	237kW	473kW	710kW	946kW	1183kW	1419kW	1656kW	1898kW
DC voltage range	1000~1500V (full power charging)							
Full load voltage range	1070~1500V (full power discharging)							
Number of DC branches	8							
Number of modules	1	2	3	4	5	6	7	8
Maximum DC current every branch	208A	208A	208A	208A	208A	208A	208A	208A
Voltage regulation accuracy	≤±1%							

System parameters

Efficiency curve								
Peak efficiency (with auxiliary source)	98.5%							
Size (W*H*D)	2200*2160*1300 mm							
Weight	1549kg	1642kg	1735kg	1828kg	1921kg	2014kg	2107kg	2200kg
Noise	< 75dB							
Protection	IP54							
Operating temp.	-20 ° C to 60 ° C (De-rating over 45 ° C)							
Cooling	Air cooling							
Humidity (storage)	0~95% (No condensing)							
Max altitude	3000m (De-rating over 3000 m)							

Connection parameters

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