

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

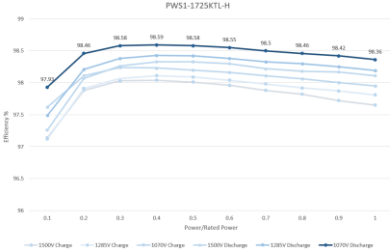
AC parameters

Nominal AC power	215kVA	430kVA	645kVA	860kVA	1075kVA	1290kVA	1505kVA	1725kVA
AC connection	Three-phase three-wire							
Overload Capability	236kVA	473kVA	709kVA	946kVA	1182kVA	1419kVA	1655kVA	1897kVA
AC voltage	690(-15%~10%)V							
AC frequency	50/60 (-5~5) Hz							
THDi	≤3%							
AC PF	0.99/-1~1							

DC parameters

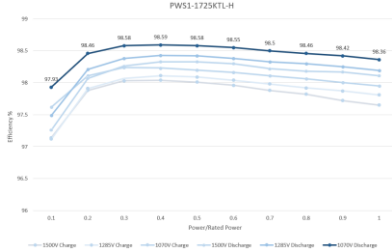
Max DC power	236kW	473kW	709kW	946kW	1182kW	1419kW	1655kW	1897kW
DC voltage range	1000~1500V(Can only be charged)							
Full load voltage range	1070~1500V(Full charge and discharge)							
Number of DC branch	1							
Number of modules	1	2	3	4	5	6	7	8
Maximum DC current every branch	201A	402A	603A	804A	1005A	1206A	1407A	1612A
Voltage regulation accuracy	≤±1%							
Current regulation accuracy	≤±1%							

System parameters

Efficiency curve								
Peak efficiency	98.5%							
Size (W*H*D)	2200*2160*1300 mm							
Weight	1549kg	1642kg	1735kg	1828kg	1921kg	2014kg	2107kg	2200kg
Noise	< 75dB							
Enclosure	IP54/NEMA3R							
Operating temp.	-20° C to 60° C (De-rating over 50° C)							
Cooling	Air cooling							
Humidity	0~100% (No condensing)							
Max altitude	3000m/10000feet (> 3000m/10000feet derating)							

Connection parameters

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

Specification					
PWS1-1725KTL-H-EX-XM4-O					
AC parameters					
Nominal AC power	215kVA	430kVA	860kVA	1290kVA	1725kVA
AC connection	Three-phase three-wire				
Overload Capability	236kVA	473kVA	946kVA	1419kVA	1897kVA
AC voltage	690(-15%~10%)V				
AC frequency	50/60 (-5~5) Hz				
THDi	≤3%				
AC PF	0.99/-1~1				
DC parameters					
Max DC power	236kW	473kW	946kW	1419kW	1897kW
DC voltage range	1000~1500V(Can only be charged)				
Full load voltage range	1070~1500V(Full charge and discharge)				
Number of DC branches	4				
Number of modules	1	2	4	6	8
Maximum DC current every branch	201A	402A	402A	402A	402A
Voltage regulation accuracy	≤±1%				
Current regulation accuracy	≤±1%				
System parameters					
Efficiency curve					
Peak efficiency	98.5%				
Size (W*H*D)	2200*2160*1300 mm				
Weight	1549kg	1642kg	1828kg	2014kg	2200kg
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BMS	Support				

Specification

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

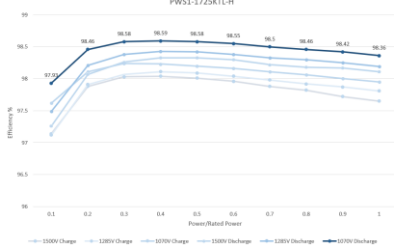
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Overload Capability	236kVA	473kVA	709kVA	946kVA	1182kVA	1419kVA	1655kVA	1897kVA
AC voltage	690(-15%~10%)V							
AC frequency	50/60 (-5~5) Hz							
THDi	≤3%							
AC PF	0.99/-1~1							

DC parameters

Max DC power	236kW	473kW	709kW	946kW	1182kW	1419kW	1655kW	1897kW
DC voltage range	1000~1500V(Can only be charged)							
Full load voltage range	1070~1500V(Full charge and discharge)							
Number of DC branches	8							
Number of modules	1	2	3	4	5	6	7	8
Maximum DC current every branch	201A	201A	201A	201A	201A	201A	201A	201A
Voltage regulation accuracy	≤±1%							
Current regulation accuracy	≤±1%							

System parameters

Efficiency curve								
Peak efficiency	98.5%							
Size (W*H*D)	2200*2160*1300 mm							
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