

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

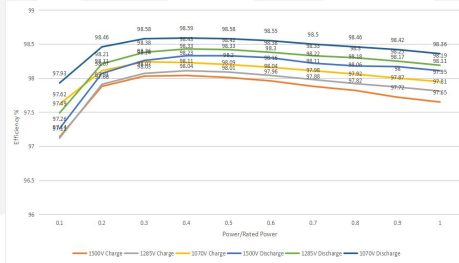
Nominal AC power	215kVA	431kVA	646kVA	862kVA	1078kVA	1293kVA	1509kVA	1725kVA
AC connection	Three-phase three-wire (3P3W)							
Overload Capability	237kVA	474kVA	711kVA	948kVA	1186kVA	1423kVA	1660kVA	1897kVA
AC voltage	690(-15%~10%)V							
AC frequency	50/60 (-5~5) Hz							
THDi	≤3%							
AC PF	0.9 leading to 0.9 lagging							

DC parameters

Max DC power	237kW	474kW	711kW	948kW	1186kW	1423kW	1660kW	1897kW
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	201A	403A	605A	806A	1008A	1209A	1411A	1612A
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

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

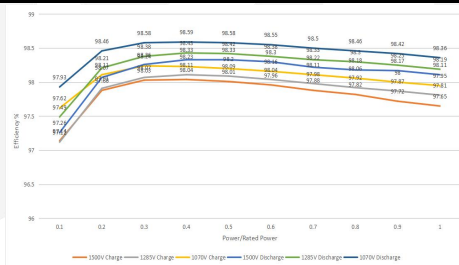
Nominal AC power	215kVA	431kVA	862kVA	1293kVA	1725kVA
AC connection	Three-phase three-wire (3P3W)				
Overload Capability	237kVA	474kVA	948kVA	1423kVA	1897kVA
AC voltage	690(-15%~10%)V				
AC frequency	50/60 (-5~5) Hz				
THDi	≤3%				
AC PF	0.9 leading to 0.9 lagging				

DC parameters

Max DC power	237kW	474kW	948kW	1423kW	1897kW
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	201A	403A	806A	1209A	1612A
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
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

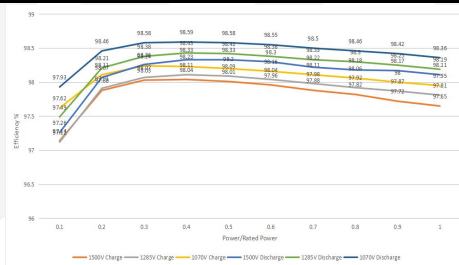
Nominal AC power	215kVA	431kVA	646kVA	862kVA	1078kVA	1293kVA	1509kVA	1725kVA
AC connection	Three-phase three-wire (3P3W)							
Overload Capability	237kVA	474kVA	711kVA	948kVA	1186kVA	1423kVA	1660kVA	1897kVA
AC voltage	690(-15%~10%)V							
AC frequency	50/60 (-5~5) Hz							
THDi	≤3%							
AC PF	0.9 leading to 0.9 lagging							

DC parameters

Max DC power	237kW	474kW	711kW	948kW	1186kW	1423kW	1660kW	1897kW
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	201A	403A	605A	806A	1008A	1209A	1411A	1612A
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
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							
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