

1725 kW Central PCS



Product Features	
Smart and efficient	
Three-level topology; maximum 99% efficiency	
Grid-independent V/f output, GFL/GFM VSG, and black start functions	
Fast power response, switching within 30 ms for charge/discharge transition at full load	
Smart connectivity	
Offers fast communication integration with a wide range of options	
Supports Modbus-RTU, CAN 2.0B, Modbus-TCP, IEC 61850 GOOSE/MMS protocols	
Safe and reliable	
Enables grid adaptation by supporting LVRT/HVRT	
Performs active and passive fault detection	
Performs comprehensive protection measurements and automatic self-diagnosis	
Cost-effective	
Air-liquid hybrid cooling, high power density at low footprint	
Multiple systems can be connected in parallel for flexible capacity increase	



Model	Wattox MPCs-1725-S
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DC Side	
Maximum DC voltage	1500 V
Operating DC voltage range	1000 – 1500 V
Maximum DC current	1807 A
Number of DC input channels	1
AC Side (Grid-connected)	
Rated power	1725 kW @ 45°C
Maximum output power	1898 kW @ 35°C
Rated grid voltage	690 V
Mains voltage range	621 - 759 V (standard)
Rated network frequency	50 / 60 Hz*
Current THD	< 3% (at rated power)
Reactive power range	-1.05 (capacitive) ~ +1.05 (inductive)
Power factor	-1 (leading) ~ +1 (lagging)
AC connection type	3-phase, 3-wire
AC Side (Independent of the grid)	
Rated AC voltage	690 V
Rated output frequency	50 / 60 Hz
Voltage variation	<1% (linearly balanced load)
Voltage THD	<3% (linear load)
Communication	
Interfaces	RS485, CAN, Ethernet
Protocols	Modbus-RTU / CAN 2.0B (Optional: Modbus-TCP, IEC 61850, EtherCAT)
System	
Maximum Efficiency	99
Cooling method	Liquid-air cooled
Ambient temperature	-40°C ~ +60°C (derating >45°C)
Relative humidity	0% – 100% (non-condensing)
Cable entry direction	DC cable from front bottom, AC cable from rear bottom
Dimensions (WxDxH)	1080 × 870 × 2175 mm
Weight	< 1200 kg
Max. operating altitude	3000 m (derating above 2000 m)
Protection class	IP65
Standards	EN-55011, IEC-61000-6-2/4, EN62477-1, EN-50549-2/10

