

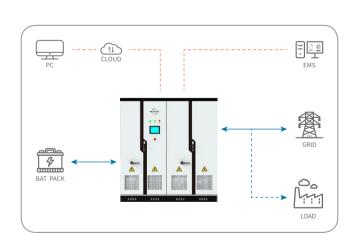
HPC-500/630K-TT

PCS (Power Conversion System)

Built-in Transformer

500kW / 630kW

- ✓ Power frequency topology, industrial design
- ✓ AC and DC dual power backup, ensure the power supply of the control system
- ✓ High power density, maximum efficiency up to 97.6%
- High-performance DSP, optimized control circuit design, better performance
- ✓ DC wide voltage input, compatible with different batteries
- √ Functions of grid connected charging and discharging and off-grid independent inverter
- ✓ Reactive power and active power are adjustable
- √ Supports diesel generator access, switching between on-grid and off-grid (optional)
- ✓ Cold start with load, three-phase 100% unbalanced load, strong load adaptability
- ✓ Friendly grid adaptability, accept power grid dispatch
- ✓ Intelligent management control strategy, multiple working modes, online or remote switching



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Technical Data	HPC-500K-TT	HPC-630K-TT
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DC Input Maximum Input Voltage 850 V Maximum Input Voltage Page 500-850 V 630-850 V 630-850 V AC Output (On-Grid)	recrimed bata	111 € 3001(11	111 6 0501(11		
Voltage Range 500-850 V 630-850 V AC Output (On-Grid) Rated Power 500 kW 630 kW Maximum Output Dower 550 kVA 693 kVA Maximum Output Current 794 A 1000 A Rated Grid Voltage 400 V Rated Grid Frequency 50/60 Hz (45-55 / 55-65) Power Factor (Rated Power) >0.99 THDi (Rated Power) <3% Power Factor 1 (0.8 leading-0.8 lagging) Output System 3PH, N, PE AC Output (Off-Grid) Rated Output Power Rated Output Power 500 kW 630 kW Maximum Output Power 500 kW 630 kW Rated Output Voltage 400 V 400 V Overload Capacity 110% Long Run 400 V Rated Output Frequency 50/60 Hz 50/60 Hz THDU (Linear Load) <3% 100 Ws Unbalanced Load Capacity 100% 100% General Data Maximum Efficiency 97.6% 97.6% Protection DC Overvoltage Protection, DC Short Circuit Protection, AC Overvoltage Pro	DC Input				
AC Output (On-Grid) Rated Power 500 kW 630 kW Maximum Output Power 550 kVA 693 kVA Maximum Output Current 794 A 1000 A Rated Grid Voltage 400 V 9 Rated Grid Frequency 50/60 Hz (45-55/55-65) Power Factor (Rated Power) <3%	Maximum Input Voltage	85	850 V		
Rated Power 500 kW 630 kW Maximum Output Power 550 kVA 693 kVA	Voltage Range	500~850 V	630~850 V		
Maximum Output Power 550 kVA 693 kVA Maximum Output Current 794 A 1000 A Rated Grid Voltage 400 V Rated Grid Frequency 50/60 Hz (45-55/55-65) Power Factor (Rated Power) >0.99 THDi (Rated Power) Power Factor 1 (0.8 leading=0.8 lagging) Output System 3PH, N, PE AC Output (Off-Grid) Rated Output Power 500 kW Maximum Output Power 550 kVA Rated Output Voltage 400 V Overload Capacity 110% Long Run Rated Output Frequency 50/60 Hz THDu (Linear Load) <3%	AC Output (On-Grid)				
Maximum Output Current 794 A 1000 A Rated Grid Voltage 400 V Rated Grid Frequency 50/60 Hz (45-55/55-65) Power Factor (Rated Power) >0.99 THDi (Rated Power) <3%	Rated Power	500 kW	630 kW		
Rated Grid Voltage Rated Grid Frequency 50/60 Hz (45-55 / 55-65) Power Factor (Rated Power) 7-NDi (Rated Power) 1 (0.8 leading-0.8 lagging) Output System 3PH, N, PE AC Output (Off-Grid) Rated Output Power 500 kW 630 kW Maximum Output Power 550 kVA 693 kVA Rated Output Voltage 400 V Overload Capacity 110% Long Run Rated Output Frequency 50/60 Hz THDu (Linear Load) 1-00% Ceneral Data Maximum Efficiency Protection DC Overvoltage Protection, DC Short Circuit Protection, AC Overvoltage Protection, Polarity Reverse Protection, Module Temperature Protection Ingress Protection Rating IP20 Isolation Transformer Pemperature Range -30-55°C Cooling Method Forced Air Cooling Relative Humidity -9-95%, Non-condensing Altitude S500 M (P-3000 m Derating) Display Touch Screen Communication Ethernet, RS485 BMS Communication RS485, CAN Communication Protocol Standby Consumption Veight 300 kg 3200 kg	Maximum Output Power	550 kVA	693 kVA		
Rated Grid Frequency 50/60 Hz (45-55 / 55-65)	Maximum Output Current	794 A	1000 A		
Power Factor (Rated Power) So,99	Rated Grid Voltage	40	400 V		
THDi (Rated Power) Power Factor 1 (0.8 leading-0.8 lagging) Output System 3PH, N, PE AC Output (Off-Grid) Rated Output Power 500 kW 630 kW Maximum Output Power 550 kVA 693 kVA Rated Output Voltage 400 V Overload Capacity 110% Long Run Rated Output Frequency THDu (Linear Load) Unbalanced Load Capacity 100% General Data Maximum Efficiency Protection DC Overvoltage Protection, DC Short Circuit Protection, AC Overvoltage Protection, Polarity Reverse Protection, Module Temperature Protection Ingress Protection Rating IP20 Ingress Protection Rating IP20 Cooling Method Forced Air Cooling Relative Humidity 0-95%, Non-condensing Altitude \$\infty\$ Touch Screen Communication Etherner, RS485 BMS Communication RS485, CAN Communication Protocol Standby Consumption \$\infty\$ 3200 kg	Rated Grid Frequency	50/60 Hz (45~55 / 55~65)			
Power Factor 1 (0.8 leading~0.8 lagging) Output System 3PH, N, PE AC Output (Off-Grid) Rated Output Power 500 kW 630 kW Maximum Output Power 550 kVA 693 kVA Rated Output Voltage 400 V Overload Capacity 110% Long Run Rated Output Frequency 50/60 Hz THDu (Linear Load) 	Power Factor (Rated Power)	>(
Output System 3PH, N, PE AC Output (Off-Grid) Rated Output Power 500 kW 630 kW Maximum Output Power 550 kVA 693 kVA Rated Output Voltage 400 V Overload Capacity 110% Long Run Rated Output Frequency 550/60 Hz THDu (Linear Load) <3% Unbalanced Load Capacity 100% General Data Maximum Efficiency 97.6% Protection DC Overvoltage Protection, DC Short Circuit Protection, AC Overvoltage Protection, Polarity Reverse Protection, Module Temperature Protection Ingress Protection Rating IP20 Isolation Transformer Yes Temperature Range -30-55°C Cooling Method Forced Air Cooling Relative Humidity 0-95%, Non-condensing Altitude \$5000 m (>3000 m Derating) Display Touch Screen Communication Ethernet, R5485 BMS Communication R5485, CAN Communication Protocol Modbus, IEC104 Standby Consumption \$50 W Weight 3000 kg 3200 kg	THDi (Rated Power)	<	<3%		
AC Output (Off-Grid) Rated Output Power 500 kW 630 kW Maximum Output Power 550 kVA 693 kVA Rated Output Voltage 400 V Overload Capacity 1110% Long Run Rated Output Frequency 50/60 Hz THDu (Linear Load) <a hre<="" td=""><td>Power Factor</td><td>1 (0.8 leadin</td><td colspan="3">1 (0.8 leading~0.8 lagging)</td>	Power Factor	1 (0.8 leadin	1 (0.8 leading~0.8 lagging)		
Rated Output Power 500 kW 630 kW Maximum Output Power 550 kVA 693 kVA Rated Output Voltage 400 V Overload Capacity 110% Long Run Rated Output Frequency 50/60 Hz THDu (Linear Load) <3%	Output System	3PH			
Maximum Output Power 550 kVA 693 kVA Rated Output Voltage 400 V Overload Capacity 110% Long Run Rated Output Frequency 50/60 Hz THDu (Linear Load) 33% Unbalanced Load Capacity 100% General Data Maximum Efficiency 97.6% Protection DC Overvoltage Protection, DC Short Circuit Protection, AC Overvoltage Protection, Polarity Reverse Protection, Module Temperature Protection Ingress Protection Rating IP20 Isolation Transformer Yes Temperature Range -30-55°C Cooling Method Forced Air Cooling Relative Humidity 0-95%, Non-condensing Altitude ≤5000 m (>3000 m Derating) Display Touch Screen Communication Ethernet, RS485 BMS Communication RS485, CAN Communication Protocol Modbus, IEC104 Standby Consumption <50 W	AC Output (Off-Grid)				
Rated Output Voltage 400 V Overload Capacity 110% Long Run Rated Output Frequency 50/60 Hz THDu (Linear Load) <39%	Rated Output Power	500 kW	630 kW		
Overload Capacity 110% Long Run Rated Output Frequency 50/60 Hz THDu (Linear Load) <3%	Maximum Output Power	550 kVA	693 kVA		
Rated Output Frequency 50/60 Hz THDu (Linear Load) <3%	Rated Output Voltage	400 V			
THDu (Linear Load) Unbalanced Load Capacity General Data Maximum Efficiency Protection Protection Ingress Protection Rating IP20 Isolation Transformer Temperature Range Cooling Method Relative Humidity Altitude Sisplay Display Touch Screen Communication Ethernet, RS485 BMS Communication Communication Protectol Standby Consumption 	Overload Capacity	110% L	110% Long Run		
Unbalanced Load Capacity 100% General Data 97.6% Protection DC Overvoltage Protection, DC Short Circuit Protection, AC Overvoltage Protection, Polarity Reverse Protection, Module Temperature Protection Ingress Protection Rating IP20 Isolation Transformer Yes Temperature Range -30~55°C Cooling Method Forced Air Cooling Relative Humidity 0~95%, Non-condensing Altitude ≤5000 m (>3000 m Derating) Display Touch Screen Communication Ethernet, RS485 BMS Communication RS485, CAN Communication Protocol Modbus, IEC104 Standby Consumption <50 W		50/60 Hz			
General DataMaximum Efficiency97.6%ProtectionDC Overvoltage Protection, DC Short Circuit Protection, AC Overvoltage Protection, Polarity Reverse Protection, Module Temperature ProtectionIngress Protection RatingIP20Isolation TransformerYesTemperature Range-30~55°CCooling MethodForced Air CoolingRelative Humidity0~95%, Non-condensingAltitude≤5000 m (>3000 m Derating)DisplayTouch ScreenCommunicationEthernet, RS485BMS CommunicationRS485, CANCommunication ProtocolModbus, IEC104Standby Consumption<50 W	THDu (Linear Load)	<	<3%		
Maximum Efficiency97.6%ProtectionDC Overvoltage Protection, DC Short Circuit Protection, AC Overvoltage Protection, Polarity Reverse Protection, Module Temperature ProtectionIngress Protection RatingIP20Isolation TransformerYesTemperature Range-30~55°CCooling MethodForced Air CoolingRelative Humidity0~95%, Non-condensingAltitude≤5000 m (>3000 m Derating)DisplayTouch ScreenCommunicationEthernet, RS485BMS CommunicationRS485, CANCommunication ProtocolModbus, IEC104Standby Consumption<50 W	Unbalanced Load Capacity	10	100%		
Protection DC Overvoltage Protection, DC Short Circuit Protection, AC Overvoltage Protection, Polarity Reverse Protection, Module Temperature Protection Ingress Protection Rating IP20 Isolation Transformer Yes Temperature Range -30~55°C Cooling Method Forced Air Cooling Relative Humidity 0~95%, Non-condensing Altitude ≤5000 m (>3000 m Derating) Display Touch Screen Communication Ethernet, RS485 BMS Communication RS485, CAN Communication Protocol Modbus, IEC104 Standby Consumption <50 W Weight 3000 kg 3200 kg	General Data				
Protection, Module Temperature Protection Ingress Protection Rating IP20 Isolation Transformer Yes Temperature Range Cooling Method Relative Humidity Altitude Sipply Display Touch Screen Communication Ethernet, RS485 BMS Communication RS485, CAN Communication Protocol Standby Consumption Weight Protection, Module Temperature Protection IP20 IP20 IP20 IP20 Yes -30~55°C Cooling Method Forced Air Cooling Relative Humidity Forced Air Cooling Forced Air Co	Maximum Efficiency		97.6%		
Isolation Transformer Yes Temperature Range -30~55°C Cooling Method Forced Air Cooling Relative Humidity 0~95%, Non-condensing Altitude ≤5000 m (>3000 m Derating) Display Touch Screen Communication Ethernet, RS485 BMS Communication RS485, CAN Communication Protocol Modbus, IEC104 Standby Consumption <50 W	Protection				
Temperature Range-30~55°CCooling MethodForced Air CoolingRelative Humidity0~95%, Non-condensingAltitude≤5000 m (>3000 m Derating)DisplayTouch ScreenCommunicationEthernet, RS485BMS CommunicationRS485, CANCommunication ProtocolModbus, IEC104Standby Consumption<50 W	Ingress Protection Rating	IF	IP20		
Cooling MethodForced Air CoolingRelative Humidity0~95%, Non-condensingAltitude≤5000 m (>3000 m Derating)DisplayTouch ScreenCommunicationEthernet, RS485BMS CommunicationRS485, CANCommunication ProtocolModbus, IEC104Standby Consumption<50 W	Isolation Transformer	127			
Relative Humidity 0~95%, Non-condensing Altitude ≤5000 m (>3000 m Derating) Display Touch Screen Communication Ethernet, RS485 BMS Communication RS485, CAN Communication Protocol Modbus, IEC104 Standby Consumption <50 W					
Altitude Sisplay Si		9			
Display Touch Screen Communication Ethernet, RS485 BMS Communication RS485, CAN Communication Protocol Modbus, IEC104 Standby Consumption <50 W Weight 3000 kg 3200 kg	Relative Humidity	<u> </u>			
CommunicationEthernet, RS485BMS CommunicationRS485, CANCommunication ProtocolModbus, IEC104Standby Consumption<50 W			≤5000 m (>3000 m Derating)		
BMS Communication RS485, CAN Communication Protocol Modbus, IEC104 Standby Consumption <					
Communication ProtocolModbus, IEC104Standby Consumption<50 W	Communication	Etherne	Ethernet, RS485		
Standby Consumption <50 W Weight 3000 kg 3200 kg			,		
Weight 3000 kg 3200 kg		Modbu			
Dimensions (WxDxH) 2100x1050x2260 mm 2400x1050x2260 mm			<u> </u>		
	Dimensions (WxDxH)	2100x1050x2260 mm	2400x1050x2260 mm		



