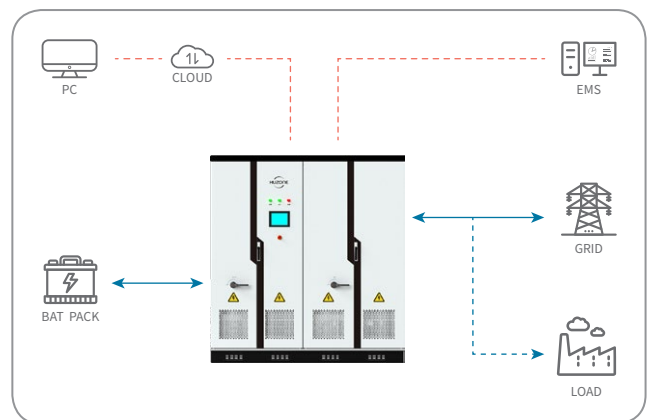




HPC-500/630K-TT PCS (Power Conversion System)

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



Microgrid



PV power station



Wind power station



Industrial and commercial



Grid side



Hybrid charging

Technical Data

HPC-500K-TT

HPC-630K-TT

DC Input

Maximum Input Voltage	850 V	
Voltage Range	500~850 V	630~850 V

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	
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	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%	
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	
Weight	3000 kg	3200 kg
Dimensions (WxDxH)	2100x1050x2260 mm	2400x1050x2260 mm

