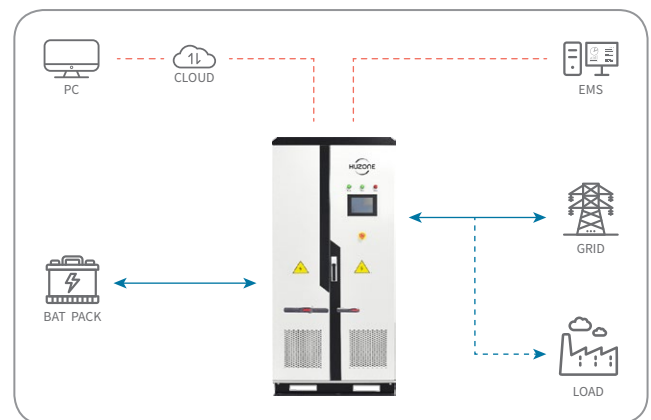




## HPC-50~250K-TT PCS (Power Conversion System)

**Built-in Transformer**  
50kW / 100kW / 250kW

- ✓ 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%
- ✓ High-performance DSP, optimized control circuit design, better performance
- ✓ Wide DC input voltage range design, 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, seamless 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



Factory



Mine



Farm



Hospital



Hotel

Technical Data

HPC-50K-TT

HPC-100K-TT

HPC-250K-TT

**DC Input**

Maximum Input Voltage	850 V		
Voltage Range	500~850 V		

**AC Output (On-Grid)**

Rated Output Power	50 kW	100 kW	250 kW
Maximum Output Power	55 kVA	110 kVA	275 kVA
Maximum Output Current	79 A	159 A	397 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	50 kW	100 kW	250 kW
Maximum Output Power	55 kVA	110 kVA	275 kVA
Overload Capacity	110% Long Run		
Rated Output Voltage	400 V		
Rated Output Frequency	50/60 Hz		
THDu (Linear Load)	<3%		
Unbalanced Load Capacity	100%		

**General Data**

Maximum Efficiency	96%	97%
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	650 kg	1600 kg
Dimensions (WxDxH)	1000x800x2015 mm	1000x1050x2260 mm

