



Three-Phase Hybrid Inverter

HUA-8~15K3P-BL

「8/10/12/15kW」

Features



PV Oversizing

Upto200%PVaccessing, 160% PV oversizing



Unbalanced Output

Support150%three-phase unbalanced output to improve flexibility of power distribution



High-Power Density

Acompactsizeforflexible installation and reduced transportation cost



Overload Capacity

Peak powerable toreach 2 times the rated power for 10s in off-grid mode



Parallel Connection

Supportparallelconnection up to 9 units



Efficient Battery Charge / Discharge

Max. battery charge/discharge current of up to 290A



Touch Screen

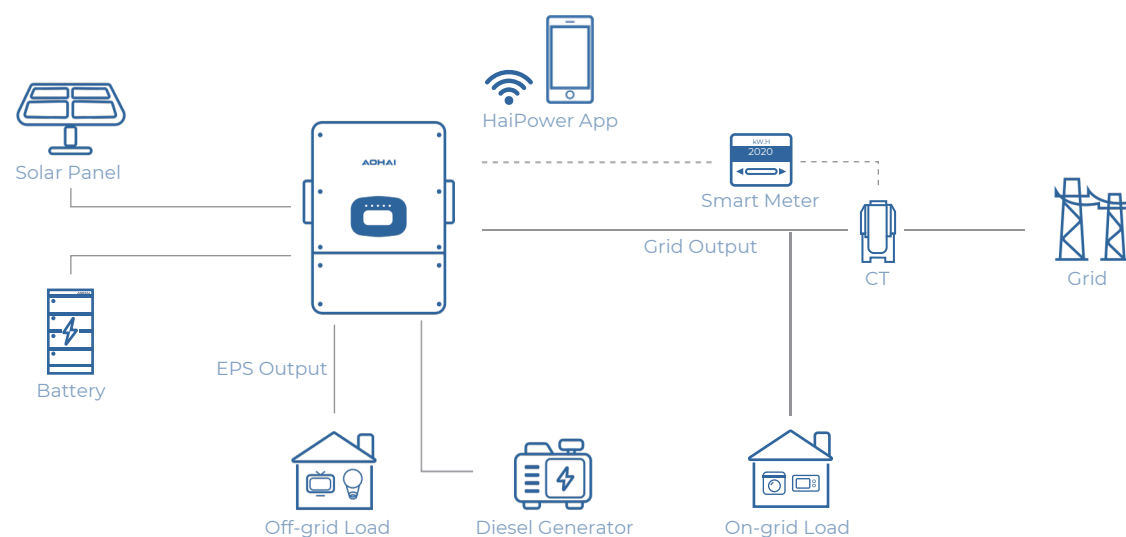
4.3"800 x480 interactive display without physical keys



Flexible Connection

- GEN port for generatorinput
- Dual AC outputs for smart load management
- AC coupling function

Energy Storage Solution



Specifications

Model	HUA-8K3P-BL	HUA-10K3P-BL	HUA-12K3P-BL	HUA-15K3P-BL
Solar Input Data				
Recommended Max. PV Array Size	16000Wp	20000Wp	24000Wp	30000Wp
Max. PV Input Power	12800W	16000W	19200W	24000W
Max. Input Voltage		800V		
Start-up Voltage		160V		
Nominal Input Voltage		550V		
MPPT Operating Voltage Range		160~650V		
MPPT Voltage Range (full load)	350~650V	350~650V	350~650V	400~650V
Max. Input Current per MPPT		27A+20A		
Max. Short Circuit Current per MPPT		40A+30A		
Number of MPPT		2		
Number of Strings per MPPT		2+1		
Max. Inverter Backfeed Current to The Array		0		
Battery Type				
Battery Type	Lead-acid or Lithium-ion			
Nominal Battery Voltage	48V			
Battery Voltage Range	40V~60V			
Max. Charge / Discharge Current	180A	220A	250A	290A
Max. Charge / Discharge Power	8000W / 8000W	10000W / 10000W	12000W / 12000W	15000W / 15000W
Battery Communication	Self-adaption to BMS			
Number of Battery Input	2 (in parallel)			
AC Input / Output Data (Grid, Load & Generator)				
Nominal AC Input/Output Active Power				
Max. AC Input / Output Apparent Power	8000W	10000W	12000W	15000W
Peak Apparent Power (off-grid) (VA)	8800VA	11000VA	13200VA	16500VA
Nominal AC Input / Output Current	2 times of rated power, 10s			
Max. AC Input / Output Current	12.2A / 13.6A / 11.2A	15.2A / 14.5A / 13.9A	18.2A / 17.4A / 16.7A	22.8A / 21.8A / 20.9A
Max. Three-phase Unbalanced Output Current	18.2A	16.7A	20A	25A
Max. Continuous AC Passthrough (grid to load)	50A	22.8A	27.3A	34.1A
Max. Output Fault Current	26.8A	50A	50A	50A
Max. Output Over Current Protection		33.4A	40A	50A
Nominal Input / Output Voltage	73.5A			
Input/Output Voltage Range (V)	220V / 380V, 230V / 400V, 240V / 415V			
Grid Connection Form	0.85Un-1.1Un			
Nominal Grid Frequency / Range	3L+N+PE			
Power Factor	50/45-55Hz, 60/55-65Hz			
THDi(nominal power)	~1 (0.8 leading to 0.8 lagging)			
DC Injection Current	<3%			
Switch time(ms)	<0.5In			
	4			
Max. Efficiency				
European Efficiency	97.60%			
MPPT Efficiency	97.0%			
	>99.9%			
Protection				
PV Reverse Polarity Protection				
Anti-Islanding Protection	yes			
Output Short Protection	yes			
Ground Fault monitoring	yes			
Insulation Resistance Monitoring	yes			
Over-current Protection	yes			
Over-temperature Protection	yes			
AFCI Protection	yes			
DC Switch	Optional			
Residual Current Monitoring	yes			
Grid Monitoring	yes			
AC / DC Surge Protection	yes			
	TYPE II (DC), TYPE II (AC)			
Dimension (W*H*D)				
Weight				
Relative Humidity	450mm*660mm*240mm (Excluding connectors and brackets)			
Operating Temperature Range	39kg			
Storage Temperature	0~100%			
Noise Emission	-40°C to +60°C, >45 Derating			
Altitude	-45°C to +85°C			
Cooling Method	<55dB			
Ingress Protection	3000m			
Over Voltage Category	Intelligent Air Cooling			
Protective Class	IP66			
Standby / Internal Consumption	OVC II(DC), OVC III(AC)			
Topology	I			
Communication Interface	<25W (night)			
Power Grid Side Energy Detection Method	Non-Isolated			
Display	RS485 / CAN / Bluetooth / WIFI, LAN / 4G / GPRS (optional)			
PV Connector	3 CTs, Meter (optional)			
Battery Connector	LCD & APP			
AC Connector	MC4 compatible connector			
	Connector			
	Connector			