

C&I Series



THREE PHASE HYBRID INVERTER (HV)



INV(EU)-30kW/40kW/50kW/60kW/80kW

Key Features:

-  DG Synchronization
-  800 Battery Voltage Range
-  High Voltage Battery, Higher Efficiency
-  DC Couple and AC Couple To Retrofit Existing Solar System
-  Max. 10 pcs Parallel For On-Grid & Off-Grid Operation; Support Multiple Batteries Parallely
-  100% Unbalanced Output, Each Phase: Max. output Up To 50% Rated Power



Model	INV(EU)-30K(HV)	INV(EU)-40K(HV)	INV(EU)-50K(HV)	INV(EU)-60K(HV)	INV(EU)-80K(HV)
Battery Input Data					
Battery Type	Li-Ion				
Battery Voltage Range (V)	160-800			160-1000	
Max. Charging/Discharging Current (A)	50+50			80+80	
Charging Strategy for Li-ion Battery	Self-adaption to BMS				
Number of Battery Input	2				
PV String Input Data					
Max. PV Access Power (W)	60000	80000	100000	120000	160000
Max. DC Input Power (W)	48000	64000	80000	96000	128000
Max. DC Input Voltage (V)	1000				
Start-Up Voltage (V)	180				
MPPT Voltage Range (V)	150-850				
Rated DC/PV Input Voltage (V)	600			650	
Max. Operating PV Input Current (A)	36+36+36	36+36+36+36		36+36+36+36+36+36	
Max. Input Short-Circuit Current (A)	55+55+55	55+55+55+55		54+54+54+54+54+54	
No. of MPPT Trackers/Strings MPPT	3/2 + 2+2		4/2+2+2+2	6/2+2+2+2+2+2	
AC Input/Output Data					
Rated AC Input/Output Active Power (W)	30000	40000	50000	60000	80000
Max. AC Input/Output Apparent Power (VA)	33000	44000	55000	66000	88000
Rated AC Input/Output Current (A)	45.5/43.5		75.8/72.5	91/87	121.3/115.9
Max. AC Input/Output Current (A)	50/47.8		83.4/79.8	100/95.7	133.4/127.6
Max. Continuous AC Passthrough (A)	200				
Peak Power (off-grid) (W)	2.5 Times Of Rated Power, 10S			1.5 Times Of Rated Power, 10S	
Power Factor Adjustment Range	0.8 leading to 0.8 lagging				
Rated Input/Output Voltage/Range (V)	220/380 V, 230/400V 0.85Un-1.1Un			220/380V, 230/400V, 3L+N+PE	
Rated Input/Output Grid Frequency/Range(Hz)	50Hz/45Hz-55Hz	60Hz/55Hz-65Hz		50/45-55,60/55-65	
Total Current Harmonic Distortion THDi	<3% (Of Nominal Power)				
Grid Type	Three Phase				
DC Injection Current	<0.5% In				
Efficiency					
Max. Efficiency	97.60%			98.70%	
Euro Efficiency	97.00%			98.10%	
MPPT Efficiency	>99%				
Protection					
Integrated	DC Polarity Reverse Connection Protection, AC Output Overcurrent Protection, Thermal Protection, AC Output Overvoltage Protection, AC Output Short Circuit Protection, DC Component Monitoring, Overvoltage Load Drop Protection, Ground Fault Current Monitoring, Arc Fault Circuit Interrupter (optional), Power Network Monitoring, Island Protection Monitoring, Earth Fault Detection, DC Input Switch, DC Terminal Insulation Impedance Monitoring, Residual Current (RCD) Detection, Surge protection level				
Surge Protection	TYPE II(DC), TYPE II(AC)				
Certifications and Standards					
Grid Regulation	IEC 61727, IEC 62116, CEI 0-21, EN 50549, NRS 097, RD 140, UNE 217002, OVE-Richtlinie R25, G99, VDE-AR-N 4105				
Safety EMC/Standard	IEC/EN 61000-6-1/2/3/4, IEC/EN 62109-1, IEC/EN 62109-2				
General Data					
Operating Temperature Range (°)	-40°C TO 60°C, >45°C Derating				
Permissible Ambient Humidity	0-100%				
Permissible Altitude	2000m			3000m	
Noise	<65 dB				
Ingress Protection(IP) Rating	IP 65				
Inverter Topology	Non-Isolated				
Over Voltage Category	OVC II(DC), OVC III(AC)				
Dimensions (Excluding Connectors)	894(H) mm x 527(W) mm x 294(D) mm			927(H) mm x 606(W)mm x 314(D) mm	
Weight (kg)	80			105	
Cooling	Intelligent Air Cooling				
Warranty	5 Years/10Years				
Communication With BMS	RS485;CAN			RS485/RS232/CAN	
Monitor Mode	GPRS/WIFI/BLUETOOTH/4G/LAN (Optional)				
Installation Style	Wall-Mounted				
Interface					
Communication Interface	RS485/RS232/CAN				
Monitor Mode	GPRS/WIFI/Bluetooth/4G/LAN (Optional)				