G30K~60K-P3HA Three-Phase High Voltage Hybrid Inverter

Main Features

- The product supports diesel generator to charge the battery directly;
- Multi-machine parallel connection, intelligent switching, modular dialog design, support multi-machine parallel connection, power\capacity can be expanded;
- Ultra-wide PV voltage range, high voltage battery, high efficiency;
- Safe and reliable, IP65 protection level, all-aluminum body, applicable to complex environments;
- Intelligent and friendly, ultra-quiet design, flexible communication, support for remote upgrade/local USB upgrade;
- Integrating PV and energy storage, supporting multiple batteries, integrating EMS intelligent energy management system;

	G30K-P3HA	G35K-P3HA	G40K-P3HA	G45K-P3HA	G50K-P3HA	G55K-P3HA	G60K-P3HA
Photovoltaic Parameters							
Maximum Input Power(W)	45000	52500	60000	67500	75000	82500	90000
Maximum Input Voltage(V)	1000						
MPPT Working Voltage Range/Rated Voltage(V)	180~900/610						
Maximum Input Current(A)	36/36/36				36/36/36		
Maximum short-circuit current(A)	40/40/40				40/40/40		
Number of MPPT	3				3		
Number of MPPT input strings per circuit	2/212				2/212		
Battery Parameters							
Battery voltage range(V)	220~800						
Number of battery channels	1						
Maximum charge/discharge current(A)	140/140						
Maximum charge/discharge power(W)	30000	35500	40000	45000	50000	55000	60000
Battery type	Li-ion/Lead-acid						
AC Parameters (Grid-connected)							
Rated output power(W)	30000	35500	40000	45000	50000	55000	60000
Maximum apparent output power(VA)	33000	38500	44000	49500	55000	60000	66000
Maximum Input Power(W)	60000						
Rated Voltage(Vac)	380/400V,3L/N/PE						
Rated Frequency(Hz)	50/60						
Maximum Output Current(A)	47	55	63	71	79	87	95
Maximum three-phase unbalanced output current(A)	47	55	63	71	79	87	95
Grid bypass current(A)	87						
Power Factor Range	~1(0.8 overrun~0.8 hysteresis can be set)						
Current Total Harmonic Distortion(@rated power)(%)	< 3						
AC Parameters (Off-grid side)							
Rated Output Power(W)	30000	35500	40000	45000	50000	55000	60000
Maximum apparent output power (VA)	33000	38500	44000	49500	55000	60000	66000
Rated Output Voltage(Vac)	380/400V,3L/N/PE						
Rated output frequency (Hz)	50/60						
Maximum three-phase unbalanced output current (A)	47	55	63	71	79	87	95
Maximum output single-phase apparent power (VA)	11000	12800	14600	16500	18000	20000	22000
Peak Output Apparent Power(VA)(60s)	36000	42000	48000	54000	60000	66000	70000
Peak output apparent power(VA)(10s)	45000	52500	6000	67500		75000	
Switching time between grid and off-grid (ms)	< 10						
AC Parameters (Diesel generator)							
Rated voltage(Vac)	380/400V,3L/N/PE						
Rated frequency(Hz)	50/60						
Rated input apparent power(VA)	30000	35500	40000	45000	50000	55000	60000
Efficiency							
Maximum efficiency (%)	98.2						
European efficiency (%)	97.1						
Protection							
DC reverse connection protection	Integration						
Overcurrent protection	Integration						
Anti-islanding protection	Integration						
AC short circuit protection	Integration						
Leakage current protection	Integration						
Insulation resistance detection	Integration						
Surge protection	DC Class II / AC Class III						
Basic Parameters							
Operating temperature range(℃)	-25~60(>45Derating)						
Working altitude(m)	<4000						
Noise index (dB)	<40						
Topology	Transformerless						
Cooling method	Natural Convection						
Protection Grade	IP65						
Relative Humidity Range(%)	0~95，No Condensation						
DC Connector Type	MC/Amphenol/Phoenix						
AC Connector Type	Terminal Block						
Human-computer interaction method	LCD,RS485						
Cloud communication method	RS485(WIFI/4GOptional)						
BMS communication method	CAN						
Meter communication method	RS485						
Installation	Wall Mount						
Dimension(W*H*D mm)	800*875*350						
Weight(kg)	100（Without Backplane）						
Certification Standard							
Safety Standard	IEC62109-1/-2						
EMCC Standard	EN61000-6-1/-2/-3/-4,IEC61000						
Grid-connected standard	CEI 0-21,NRS097-2-1:2017,VDE-AR-N 4105:2018，CQC 3310-2014						