



Smart 3-Phase Hybrid Inverter PhG-P6~15K0HT-M

PhaseGreen PhG-P6~15K0HT-M brings PV energy storage solutions to European customers with safe performance and first-class quality.



Friendly & flexible

- LCD display
- Support multi-machine parallel
- Support power supply of the priority load;



Safe & reliable

- IP65 Protection Level, small noise < 35dB;
- With battery reverse connection protection, anti-reverse current protection and overvoltage, overcurrent, over temperature, pulling arc and surge protection.



Economical & efficient

- Eliminating the transformers to make system efficiency higher;
- Various energy management modes such as TOU, self-use and battery priority mode

Technical specifications	PhG-P6K0HT-M	PhG-P8K0HT-M	PhG-P10K0HT-M	PhG-P12K0HT-M	PhG-P15K0HT-M
Input (PV)					
Max. power(W)	9000	12000	15000	18000	22500
Max. DC System Voltage(V)	1000				
MPPT operating voltage range	180-850V				
MPPT tracker/strings	2/1				
Max. input current per MPPT(A)	13			20	
Max. short-circuit current per MPPT(A)	16			30	
Battery Input/Output					
Battery voltage range(V)	125~600				
Max. charge Voltage(V)	600				
Rated charge/discharge current(A)	40	40	40	40	40
Max. charge/discharge current(A)	50	50	50	50	50
Battery type	Lithium iron phosphate(LFP) and Lead Acid Battery				
Communication interface	CAN/RS485				
AC output(On-Grid/Backup)					
Nominal AC voltage	3W+N+PE; 220 / 380 V, 230 / 400 V, 240 / 415 V				
AC frequency rated & range	50 ±5Hz / 60 ±5Hz				
Rated output power(VA)	6000	8000	10000	12000	15000
Max. output power(VA)	6600	8800	11000	13200	16500
Rated output current(A) @400V	8.7	11.5	14.4	17.3	21.7
Max. output current(A)	9.5	12.7	15.9	19.1	23.8
Power factor	0.99, 0.8 leading~0.8 lagging				
Harmonics THDi @ Nominal power	<3%				
Max. switch time(Backup)	≤20 ms				
Output THDv @ Linear load(Backup)	<2%				
Overload capability	110%,30s/120%,10s/150%,0.02s				
AC Input(On-Grid)					
Rated grid voltage	3W+N+PE, 220 / 380 V; 230 / 400 V; 240 / 415 V				
AC voltage range	360 V ~ 440 V				
AC grid frequency rated & range	50 ±5Hz / 60 ±5Hz				
Rated power(W)	12000	16000	20000	24000	30000
Max. input power from grid(VA)	13200	17600	22000	26400	33300
Rated input current from grid(A)	17.3	23.1	28.9	34.7	43.4
Max. input current from grid(A)	19	25.5	31.	38.2	47.6
General					
MPPT efficiency	99.5%				
Max efficiency	97.9%	97.9%	98.2%	98.2%	98.5%
Euro efficiency	97.2%	97.2%	97.5%	97.5%	97.6%
Max. battery to load efficiency	97.5%	97.5%	97.5%	97.6%	97.8%
Ingress Protection	IP65				
Noise(dB)	<35				
·Dimensions W * D * H (mm)	530*200*600				
Device weight(kg)	30	31	31	31	34
Operating temperature range	-25 ~ + 60 °C (-13 °F ~ 140 °F)				
Relative operating humidity	0 %RH ~ 95 %RH				
Cooling	Natural convention ~ No Fans				
Max. operating altitude	4000m(Derating above 2000 m)				
Display	LCD				
Communication RS485/Wifi/4G/CAN	Yes/Yes/Optional/Yes				
Limited Warranty	10 years				
Standard Compliance					
Safety	IEC/EN62109-1,IEC/EN62109-2				
EMC	IEC61000-6-1,IEC61000-6-3				
Grid connection standard	IEC61727,IEC62116,IEC61683,Europe:EN50549-1;Germany:VDE4105/2104,NTS 2.1;Spain:UNE 217001,UNE 217002,UNE 206007,UNE 206006				