



iWatt Series 5~10kW

Smart Split-phase Hybrid Inverter

PhaseGreen iWatt

brings PV energy storage solutions to American customers with safe performance and first-class quality.



CEC Approved

Friendly & flexible



- Support multi-machine parallel connection
- Support multi-machine parallel mode sharing a battery pack
- Single-machine load capacity 100A; Supports 100% phase unbalanced output

Safe & reliable



- Passed UL 1741; IEEE 1547; UL1699B; FCC; CA Rule21; HECO Rule14H
- Ingress protection IP65
- CEC Approved

Economic & efficient



- Support parallel SOC equalization control and parallel current sharing control;
- Use split-phase topology and eliminate the transformers to make higher efficiency;
- Support the diesel generator and the grid access at the same time;
- Integrate the On/Off-grid controller, Various energy management modes such as TOU, self-use and battery priority

Product Series	iWatt-5	iWatt-6	iWatt-7.6	iWatt-8	iWatt-10
Model	PhG-P5K0LNA-M	PhG-P6K0LNA-M	PhG-P7K6LNA-M	PhG-P8K0LNA-M	PhG-P10K0LNA-M
PV Input					
Max. DC input power(STC)	7,500W	9,000W	12,000W	12,000W	15,000W
Max. DC system voltage(V)	500				
MPPT operating voltage range(V)	120~500				
NO. of MPPT Tracker/String	4/1				
Max. DC input current per MPPT(A)	14				
Max. Short-circuit Current per MPPT(A)	22				
Battery Input/Output					
Nominal voltage(V)	48				
Battery voltage range(V)	40~58				
Max. charge Voltage(V)	58				
Max. charge/discharge Current(A)	120/120	135/135	190/190	190/190	190/210
Battery type	Lithium Iron Phosphate and Lead Acid Battery				
Charging Strategy for Li-Ion Battery	Self-adaption to BMS				
AC output (On-Grid)					
Rated Output power(VA)	5,000	6,000	7,600	8,000	10,000
Max. Output Power(VA)	5,500	6,600	8,400	8,800	11,000
Rated Output current(A)	20.8	25	31.7	33.3	41.7
Max. Output current(A)@240V	22.9	27.5	35	36.7	45.8
Rated Voltage L-N/L1-L2	120/240V (split-phase)				
Frequency (Hz)	50 /60				
Power factor	0.99, 0.8 leading~0.8 lagging				
THDi	<2%				
EPS output(Back-up)					
Rated Output power (VA)	5,000	6,000	7,600	8,000	10,000
Max. Output power(VA)	5,500	6,600	8,400	8,800	11,000
Rated Output current(A)	20.8	25	31.7	33.3	41.7
Max. Output current(A)@240V	22.9	27.5	35	36.7	45.8
Rated Voltage L-N/L1-L2	120/240V (split-phase)				
Frequency (Hz)	50 / 60				
Automatic switching time (ms)	< 20				
THDv	< 2%				
Overload capability	125%, 60S / 150%, 1S				
General					
Max. efficiency	0.982				
CEC Efficiency	97.2% (Peak 97.8%)				
Ingress Protection	IP65 / NEMA 3R				
Noise emission (dB)	< 38				
Dimensions W * D * H (inch)	16.93*8.66*27.95 (430*220*710mm)				
Weight (lb)	90 (41kg)				
Operating temperature range	-13 °F ~ 140 °F (-25 ~ + 60 °C)				
Relative operating humidity	0 %RH ~ 95 %RH				
Cooling	Fan				
Max. operating altitude	13120 ft /4,000 m (Derating above 6560 ft/ 2,000m)				
Display	LCD				
Communication With BMS/Meter/EMS	RS485, CAN				
Supported communication interface	RS485, WiFi, 4G (optional)				
Limited Warranty	10 years				
Standard Compliance					
Safety	UL1741, UL1741SA, UL1699B, UL1998, CSA C22.2				
Grid Connection Standards	IEEE 1547, HECO Rule 14H, CA Rule 21				
Emissions	FCC Part15 Class B				

*Note: If you need more detail data, please contact us. Version V2.2