

HYBRID INVERTER

GP Series EU Single Phase

14KW/16.8KW

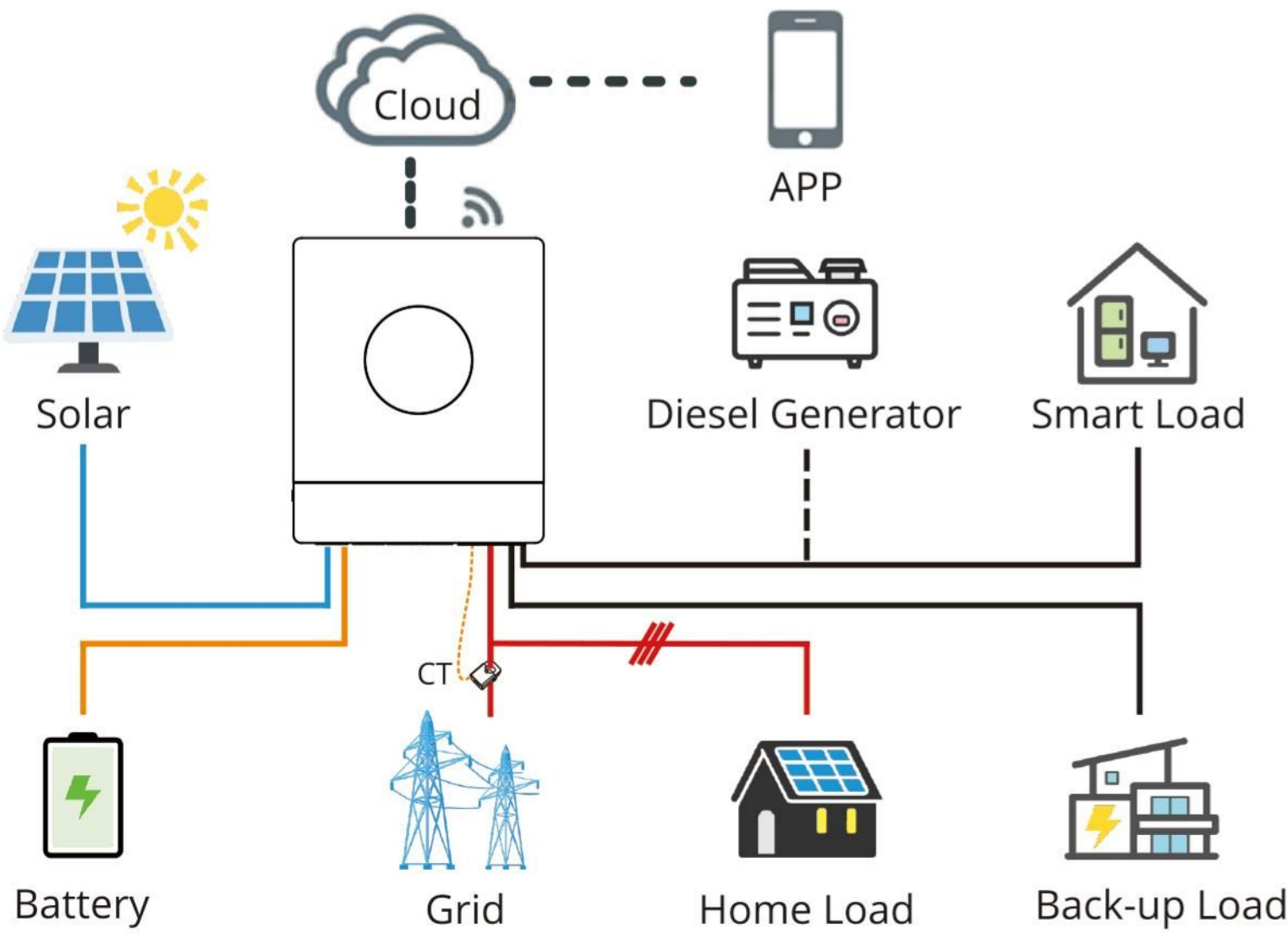

14-16.8KW


500V


230V


48V


IP54



- **High-Efficiency Power Generation**
 - Maximum Conversion Efficiency:97.6%
 - Dual MPPT 36A+36A
 - Max. input power: 12600W+12600W
- **Safe and Reliable**
 - IIP54 Protection Rating,Reliable Quality
 - 3-year Warranty,Use with More Confidence
- **User-friendly**
 - 4.3-inch Colorful Touch Screen
 - Intelligent Cloud Control
 - Intelligent Cooling Mode
 - Maximum 12 units in parallel
- **Intelligent Operation and Maintenance**
 - Intelligent Dual AC output
 - Programmable intelligent load
 - Suppor OTA remote upgrade and setup,low operation and maintenance cost.

MODEL	GP-14K48L1	GP-16.8K48L1
PV (DC Input)		
Recommended max. PV input power	25200W/(12600W+12600W)	25200W/(12600W+12600W)
Max. input voltage(Voc)	500Vdc	500Vdc
MPPT operating voltage range	85-450Vdc	85-450Vdc
Number of MPPT	2	2
No. of Strings per MPPT Tracker	2	2
Max. input current of MPPT	36A+36A	36A+36A
Max. short-circuit current per MPPT	54A+54A	54A+54A
Grid (AC Input)		
Max input power	27600W	27600W
Max input current	120A	120A
Rated grid voltage	230Vac	230Vac
Rated grid frequency	50/60Hz	50/60Hz
Acceptable range	170-280Vac (for UPS);90-280Vac (APL)	170-280Vac (for UPS);90-280Vac (APL)
Battery Parameters(Bidirection)		
Battery type	Lead-acid or Lithium-ion	Lead-acid or Lithium-ion
Battery voltage range	40-60Vdc	40-60Vdc
Rated Battery Voltage	48 Vdc	48 Vdc
Max. charge/discharge current	280A/280A	300A/300A
BMS communication mode	RS485; CAN	RS485; CAN
Back-up Output (AC output)		
Rated output power	14000W / 14000VA (Twin output)	16800W / 16800VA (Twin output)
Rated output current	60.9A	73.0A
Rated output voltage / Frequency	220/230/240V (L,N,PE) 50Hz / 60Hz	220/230/240V (L,N,PE) 50Hz / 60Hz
Parallel capacity	Up to 4 unit (56kW single phase) Up to 12 unit (168kW three phase)	Up to 4 unit (67.2kW single phase) Up to 12 unit (201.6kW three phase)
Surge power	2 times of rated power, 5s	2 times of rated power, 5s
THDv (@ linear load)	< 3%	< 3%
	10ms(typical) UPS mode 20ms(typical) APL mode	10ms(typical) UPS mode 20ms(typical) APL mode
Switching time		
Efficiency		
Peak efficiency	97.6%	97.6%
Max. MPPT efficiency	>99%	>99%
Protection		
	AC Output Overvoltage Protection, AC Output Short Circuit Protection, AC Output Overcurrent Protection, DC Component Monitoring	AC Output Overvoltage Protection, AC Output Short Circuit Protection, AC Output Overcurrent Protection, DC Component Monitoring
Inner protection		
Surge protection	TYPE II (DC), TYPE III(AC)	TYPE II (DC), TYPE III(AC)
IP rating	IP54	IP54
General Parameters		
Operating temperature range	-10 to +60℃	-10 to +60℃
Relative humidity range	5%~95%	5%~95%
Max. operating altitude	>2000m derating	>2000m derating
Standby self-consumption	< 20W	< 20W
Installation type	Wall-mounted	Wall-mounted
Communication	RS485;CAN; WI-FI;Dry Port	RS485;CAN; WI-FI;Dry Port
Display	4.3-Inch Colorful Touch Screen LCD	4.3-Inch Colorful Touch Screen LCD
Mechanical Specifications		
Display	LCD	LCD
Inverter dimensions (L*W*H)	639*524*129MM	639*524*129MM
Net weight	30.8kg	30.8kg
Carton dimensions (L*W*H)	778*629*213MM	778*629*213MM
Gross weight	35.1kg	35.1kg
Warranty Period	3 years	3 years