







Hui Zhou ECE Energy Technology Co.,Ltd

-  0752-2533906
-  [www.ecelibattery.com](http://www.ecelibattery.com)
-  [inquiry@ece-newenergy.com](mailto:inquiry@ece-newenergy.com)
-  No.4, Songbai Road, Huinan High-tech Industrial Park,  
Huizhou City, Guangdong Province



惠州市亿兆能源科技有限公司  
Hui Zhou ECE Energy Technology Co.,Ltd



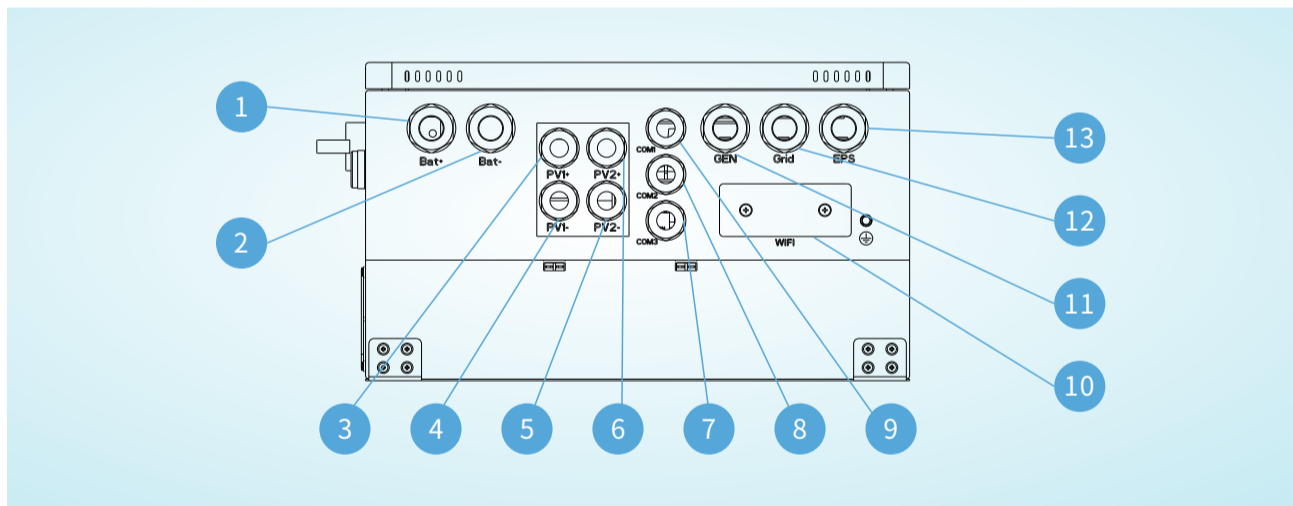
## HYBRID INVERTER



### PRODUCT FEATURE

- 🔌 Support storing energy from diesel generator
- 🔗 Max. 16 pcs parallel for on-grid and off-grid operation
- ⚙️ 6 time periods for battery charging/discharging
- 🔌 Support multiple batteries parallel
- Ⓜ️ Max. charging/discharging current 190A
- 👆 Colorful touch LCD, IP65 protection degree

### PRODUCT CHARACTERISTICS



- |         |         |         |         |          |          |         |
|---------|---------|---------|---------|----------|----------|---------|
| 1. Bat+ | 3. PV1+ | 5. PV2+ | 7. COM3 | 9. COM1  | 11. GEN  | 13. EPS |
| 2. Bat- | 4. PV1- | 6. PV2- | 8. COM2 | 10. WIFI | 12. Grid |         |



Model	PD0060G-SPM-EU	PD0080G-SPM-EU
<b>PV String Input Data</b>		
Max. DC Input Power (W)	7800	10400
Rated PV Input Voltage (V)	370 (125-500)	370 (125-500)
Start-up Voltage (V)	125	125
MPPT Voltage Range (V)	150-430	150-430
Full Load MPPT Voltage Range (V)	300-430	200-430
Max. DC Input Current(A)	13+13	20+20
Max. DC Short Circuit Current(A)	17+17	22+22
No. of MPPT Trackers	2	2
No. of Strings per MPPT Tracker	1+1	2+2
<b>AC Output Data</b>		
Rated AC Output Power (W)	6000	8000
Max AC Output Power (W)	6600	8800
AC Output Rated Current (A)	27.3	36.4
Max AC Output Current (A)	30	40
Max. Continuous AC Passthrough (A)	40	50
Peak Power (off grid)	2 tims of rated power, 10 S	
Power Factor	0.8 leading - 0.8 lagging	
AC Output Frequency and Voltage	50/60Hz; L/N/PE 220/230Vac	
Grid Type	Single Phase	
Total Harmonic Distortion (THDi)	<3% (of nominal power)	
DC Current Injection	<0.5% (Rated Current)	
<b>Battery Input Data</b>		
Battery Type	Lead-acid or Lithium-ion	
Battery Voltage Range (V)	40-60	40-60
Max. Charging Current (A)	135	190
Max. Discharging Current (A)	135	190
External Temperature Sensor	Yes	Yes
Charging Curve	3 Stages / Equalization	3 Stages / Equalization
Charging Strategy for Li-ion Battery	Self-adaption to BMS	Self-adaption to BMS
<b>Efficiency</b>		
Max. Efficiency	97.60%	
Euro Efficiency	96.50%	
MPPT Efficiency	99.90%	
<b>Protection</b>		
Anti-islanding Protection	Yes	
PV String Input Reverse Polarity Protection	Yes	
Insulation Resistor Detection	Yes	
Residual Current Monitoring Unit	Yes	
Output Over Current Protection	Yes	
Output Shorted Protection	Yes	
Surge Protection	DC Type II/AC Type III	
Over Voltage Protection	Yes	
<b>Certifications and Standards</b>		
Grid Regulation	IEC61727/62116, EN50549-1	
Safety EMC / Standard	IEC/EN 61000-6-1/2/3/4, IEC/EN 62109-1, IEC/EN 62109-2	
<b>General Data</b>		
Operating Temperature Range (°C)	-40-60°C, >45°C Derating	
Cooling	Smart Cooling	
Noise (dB)	≤50 dB	
Communication with BMS	RS485; CAN	
Monitoring mode	WIFI, APP	
Weight (kg)	31	
Size (W x H x D mm)	580x330x252mm	630x413x258mm
Protection Degree	IP65	
Installation Style	Wall-mounted	

HIGH-FREQUENCY PARALLEL OFF-GRID AND ON-GRID  
INVERTER CONTROL INTEGRATED MACHINE



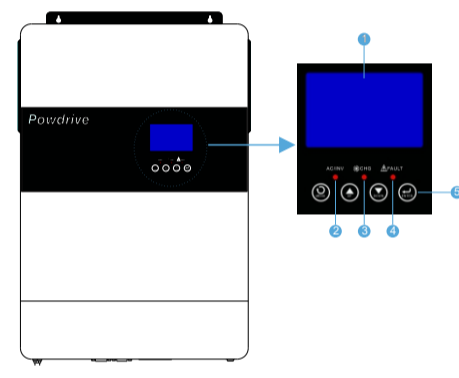
Features

- Mains charging up to 60A, charging current and charging voltage can be set by LCD screen
- The maximum PV open-circuit voltage is 450V. When the energy is enough, the battery can not be loaded
- With the battery over discharge, overload protection, over temperature protection, short circuit protection and other protection functions
- After the battery is discharged and the inverter is shut down, the inverter will start up automatically when the photovoltaic is restored
- With a wide range of mains input voltage, can be selected through LCD, to meet different demand
- Pure sine wave output, It can be used for various types of loads
- With multi-mode setting function, you can select and set the priority level of PV, mains, and battery on the LCD screen
- With cold start function; Supports USB and RS485 communication functions
- WIFI intelligent monitoring function, support mobile APP to view various data (optional)

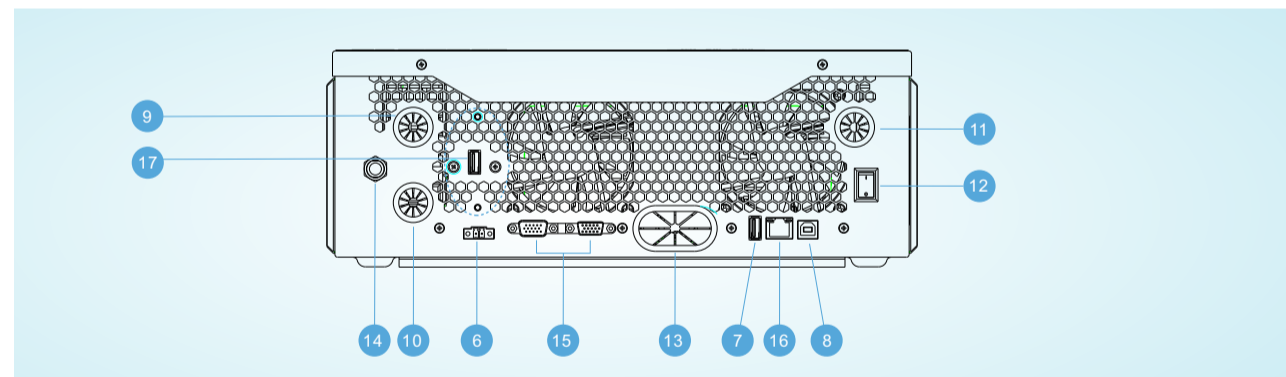
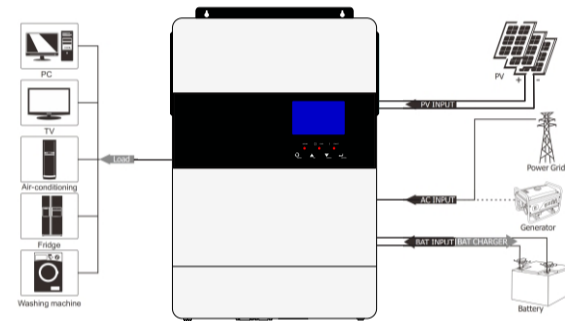
INTRODUCTION

PV0052G-SPM-EU is a pure sine wave high frequency solar inverter control machine, with a wide PV input range, when the energy is enough without battery load, with high power density, small volume, simple operation, high efficiency of the whole machine, small no-load loss and other advantages. Widely used in household systems, communication base stations, monitoring systems, pastoral areas, 5G auxiliary power supply, etc.

PRODUCT OVERVIEW



BASIC SYSTEM ARCHITECTURE



- |                       |                |                         |                               |
|-----------------------|----------------|-------------------------|-------------------------------|
| 1. LCD display        | 6. Dry contact | 11. PV input            | 16. RS-485 communication port |
| 2. Status indicator   | 7. USB 1       | 12. Power On/Off switch | 17. USB WIFI                  |
| 3. Charging indicator | 8. USB 2       | 13. Battery input       |                               |
| 4. Fault indicator    | 9. AC input    | 14. Circuit breaker     |                               |
| 5. Function buttons   | 10. AC output  | 15. Parallel interface  |                               |



Model Name	PV0030G-SPM-EU	PV0052G-SPM-EU
<b>Nominal voltage</b>	48VDC	48VDC
<b>Inverter output</b>	Rated Power	3000VA/3000W
	Waveform	pure sine wave
	AC Voltage (Battery Mode)	220VAC~240VAC
	Efficiency	>93%
	Frequency	50HZ/60HZ
	Transfer Time	10ms(UPS, VDE4105) 20ms( APL)
<b>AC Input</b>	Rated voltage	230VAC
	Input voltage range	180-265VAC
	Frequency range	50Hz / 60Hz (automatic detection)
<b>Battery</b>	Rated Battery Voltage	48VDC
	Battery over voltage alarm	≥60VDC
	Overcharge alarm voltage	60VDC
	Battery voltage range	40~60VDC
	Battery Type	Lead-acid or Lithium-ion
	Charging Curve	3 Stages / Equalization
Charging Strategy for Li-ion Battery	Self-adaption to BMS	
<b>PV Charge &amp; Grid charge</b>	Maximum PV voltage	450VDC
	Photovoltaic MPPT voltage range	150-430 VDC
	Maximum Solar Charge current	60Amp
	Maximum AC charge current	40Amp
<b>Protection</b>	Anti-islanding protection	Yes
	Insulation Resistor Detection	Yes
	Residual Current Monitoring Unit	Yes
	Output Over Current Protection	Yes
	Output Shorted Protection	Yes
	Surge Protection	Yes
<b>specification</b>	Size (W*H*D)	531*361*134.5mm
	Package size (W*H*D)	575*411*222mm
	Net weight (KG)	12.6
	Gross Weight (KG)	14.6
<b>Others</b>	Humidity	5% ~ 95% Relative humidity (non-condensing)
	Operating temperature	0°C~55°C(>45°C Derating)
	Storage temperature	-10°C ~60°C



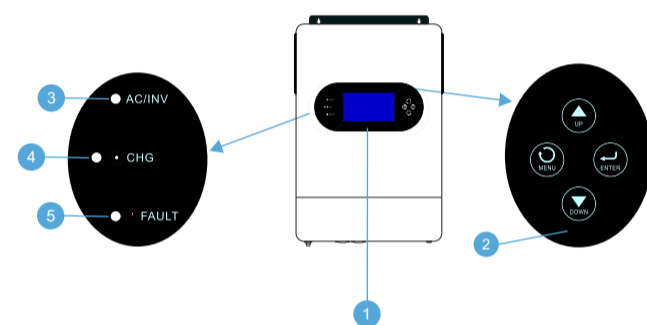
### Features

- Mains charging up to 60A, charging current and charging voltage can be set by LCD screen
- The maximum PV open-circuit voltage is 450V. When the energy is enough, the battery can not be loaded
- With the battery over discharge, overload protection, over temperature protection, short circuit protection and other protection functions
- After the battery is discharged and the inverter is shut down, the inverter will start up automatically when the photovoltaic is restored
- With a wide range of mains input voltage, can be selected through LCD, to meet different demand
- Pure sine wave output, It can be used for various types of loads
- With multi-mode setting function, you can select and set the priority level of PV, mains, and battery on the LCD screen
- With cold start function; Supports USB and RS485 communication functions
- WIFI intelligent monitoring function, support mobile APP to view various data (optional)

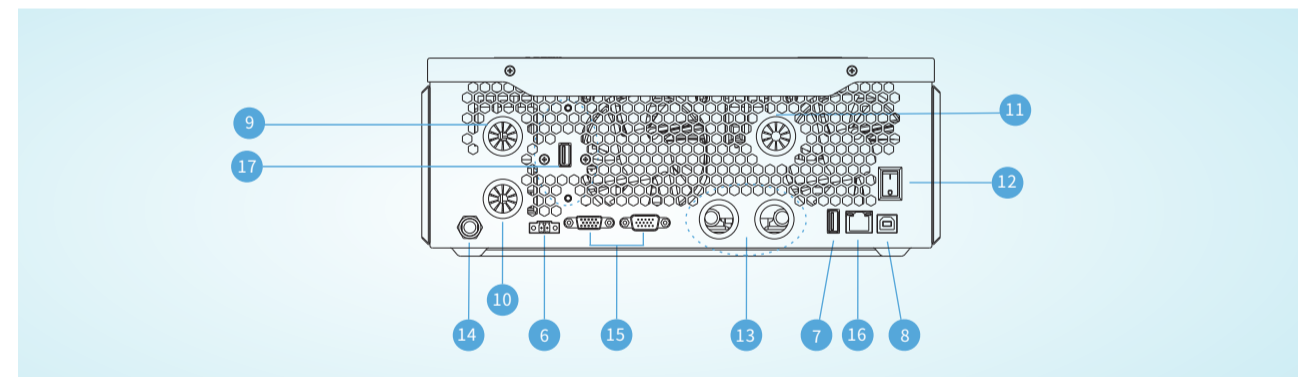
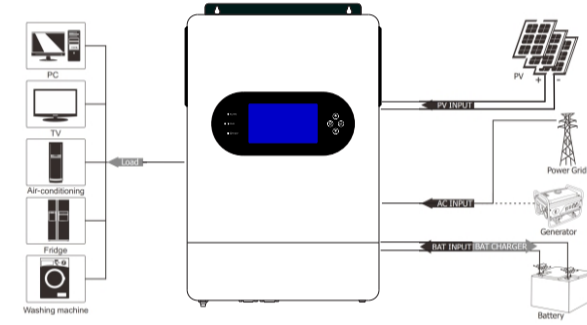
### INTRODUCTION

PH0052G-SPM-EU is a pure sine wave high frequency solar inverter control machine, with a wide PV input range, when the energy is enough without battery load, with high power density, small volume, simple operation, high efficiency of the whole machine, small no-load loss and other advantages. Widely used in household systems, communication base stations, monitoring systems, pastoral areas, 5G auxiliary power supply, etc.

### PRODUCT OVERVIEW



### BASIC SYSTEM ARCHITECTURE



- |                       |                |   |                               |
|-----------------------|----------------|---|-------------------------------|
| 1. LCD display        | 6. Dry contact | 11. PV input  | 17. USB WIFI                  |
| 2. Function buttons   | 7. USB 1       | 12. On/Off switch   | 16. RS-485 communication port |
| 3. Status indicator   | 8. USB 2       | 13. Battery input   |                               |
| 4. Charging indicator | 9. AC input    | 14. Circuit breaker                                       |                               |
| 5. Fault indicator    | 10. AC output  | 15. Parallel communication port (only for parallel model) |                               |

Model Name	PH0030G-SPM-EU	PH0052G-SPM-EU
<b>nominal voltage</b>	48VDC	48VDC
<b>Inverter output</b>	Rated Power	3000VA/3000W
	waveform	pure sine wave
	AC Voltage (Battery Mode)	220VAC~240VAC
	Efficiency (Peak)	>93%
	Frequency	50HZ/60HZ
	Transfer Time	10ms(UPS, VDE4105) 20ms( APL)
<b>AC Input</b>	Rated Voltage	230VAC
	voltage range	180-265VAC
	Frequency Range	50Hz / 60Hz (automatic detection)
<b>Battery</b>	Battery Voltage	48VDC
	Battery over voltage alarm	≥60VDC
	Over charge alarm voltage	60VDC
	Battery voltage range	40-60VDC
	Battery Type	Lead-acid or Lithium-ion
	Charging Curve	3 Stages / Equalization
	Charging Strategy for Li-Ion Battery	Self-adaption to BMS
<b>PV Charge &amp; Grid charge</b>	Maximum PV input voltage	450VDC
	Photovoltaic MPPT voltage range	150-430 VDC
	Maximum solar charging current	60Amp
	Maximum AC charging current	40Amp
	Maximum hybrid charging current	60Amp
<b>Protection</b>	Anti-islanding Protection	Yes
	Insulation Resistance Detection	Yes
	Output Over Current Protection	Yes
	Output Short-circuit Protection	Yes
	Surge Protection	Yes
<b>specification</b>	size (W*H*D)	495x328x125mm
	package size (W*H*D)	555x391x202mm
	net weight (KG)	10.6
	Gross Weight (KG)	12.6
<b>Others</b>	Humidity	5% ~ 95% Relative humidity (non-condensing)
	Operating Temperature	0°C~55°C(>45°C Derating)
	Storage Temperature	-10°C ~60°C

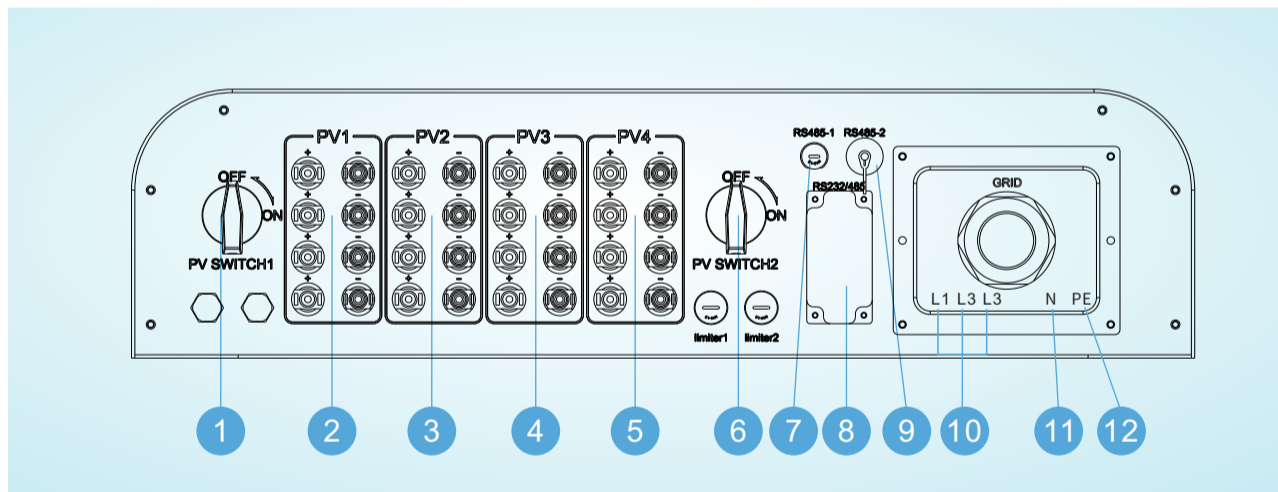
## THREE PHASE STRING INVERTER



### PRODUCT FEATURE

- 4 sets of independent MPPT trackers, Max. efficiency up to 98.5%
- Zero export application, VSG application
- String intelligent monitoring (optional)
- Wide output voltage range
- Anti-PID function (Optional)

### PRODUCT CHARACTERISTICS



- |               |        |               |            |            |        |
|---------------|--------|---------------|------------|------------|--------|
| 1. DC SWITCH1 | 3. PV2 | 5. PV4        | 7. RS485-1 | 9. RS485-2 | 11. N  |
| 2. PV1        | 4. PV3 | 6. DC SWITCH2 | 8. WIFI    | 10. L      | 12. PE |



Model	PC0300G-TP-EU	PC0400G-TP-EU	PC0500G-TP-EU
<b>PV String Input</b>			
Max. DC Input Power (kW)	39	52	65
Max. DC Input Voltage (V)	1000		
Start-up DC Input Voltage (V)	250		
Max. Power Operating Range (V)	200-850		
Max. DC Input Current	40+40	40+40+40	40+40+40+40
Max. DC Short Circuit Current (A)	60+60	60+60+60	60+60+60+60
No. of MPPT Trackers	2	3	4
No. of Strings per MPPT Tracker	3		
<b>AC Output</b>			
Rated Output Power (kW)	30	40	50
Max. Output Power (kW)	33	44	55
Nominal Output Voltage / Range (V)	3L/N/PE 220/380V, 230/400V		
Grid Frequency (Hz)	50/60Hz (automatic detection)		
Grid Type	Three phase		
Rated AC Output Current (A)	45.5	60.3	75.8
Max. AC Output Current (A)	50	66.7	83.3
Power Factor	0.8 leading - 0.8 lagging		
THDI	<3%		
DC Injection Current (mA)	<0.5% In		
Grid Frequency Range	47-52Hz / 57-62Hz		
<b>Efficiency</b>			
Max. Efficiency	98.5%		
Euro Efficiency	98%		
MPPT Efficiency	99%		
<b>Protection</b>			
DC Reverse-Polarity Protection	Yes		
AC Short Circuit Protection	Yes		
AC Output Overcurrent Protection	Yes		
Output Overvoltage Protection	Yes		
Insulation Resistance Protection	Yes		
Ground Fault Monitoring	Yes		
Anti-islanding Protection	Yes		
Temperature Protection	Yes		
Integrated DC Switch	Yes		
Remote software upload	Yes		
Remote change of operating parameters	Yes		
Surge protection	DC Type II / AC Type II		
<b>General Data</b>			
Size (mm)	650W×540H×305D		
Weight (kg)	45		
Topology	Transformerless		
Self-Consumption	10W (Night)		
Running Temperature	-25~65°C, >45°C derating		
Ingress Protection	IP65		
Noise Index (dB)	<50 dB		
Cooling Mode	Smart cooling		
Max. Operating Altitude Without Derating	2000m		
Humidity	0-100%		
<b>Certifications and Standards</b>			
Grid Connection Standard	IEC61727/62116, EN50549-1		
Safety/EMC Standard	IEC/EN 61000-6-1/2/3/4, IEC/EN 62109-1, IEC/EN 62109-2		
<b>Features</b>			
PV Input Plug	MC-4 (Optional)		
AC Output Plug	Ip65		
Display	LCD 240 × 160		
Interface	RS485/RS232/Wifi/CAN		

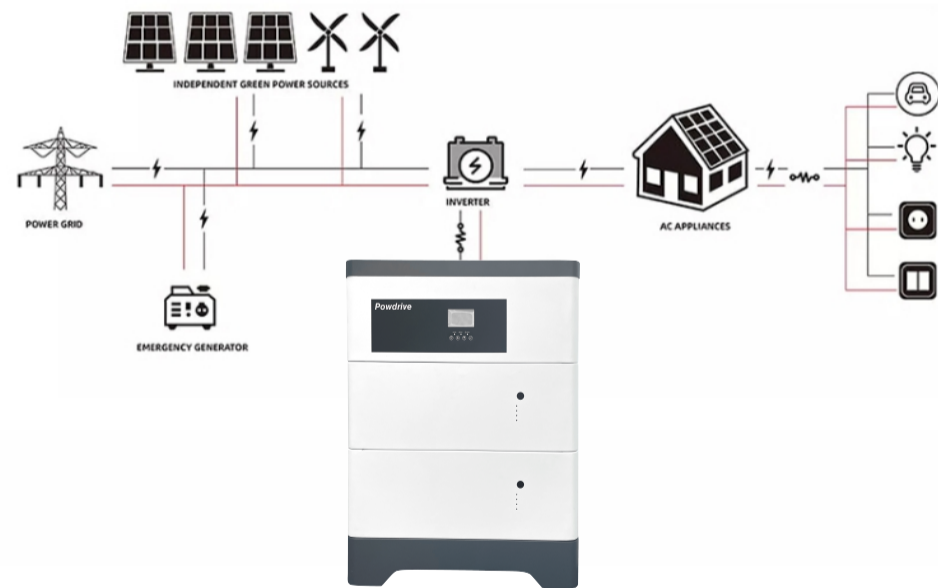
## HIGH-PERFORMANCE SINGLE-PHASE STACKING ALL-IN-ONE



### PRODUCT FEATURES

- ALL IN ONE All-in-one machine**  
 Set of industrial design, control system APP interaction completely unified all-in-one home storage system.
- Variable Scenarios**  
 Home outdoor on/off grid, black start operation, with heating function, fearless of cold.
- Flexible combination**  
 Modular design, flexible power expansion.
- Easy installation**  
 Battery module self-adaptive ID design, plug and play, no need to adapt.
- Precise control**  
 Accurately collect the voltage and temperature data of each battery cell, and grasp the working status of the battery cell in real time.
- Insulation detection**  
 Insulation detection during operation to protect the battery system and personal safety.
- APP monitoring**  
 Local and remote APP settings, real-time control of system operation data on the cell phone.

### PRODUCT CHARACTERISTICS



Model		PY0052G-SPM-EU			
<b>PV Input Parameters</b>					
Rated Voltage	230VAC				
voltage range	180-265VAC				
Frequency range	47-52Hz / 57-62Hz (Optional)				
<b>AC Output Parameters</b>					
Rated voltage	48VDC				
Rated Power	5200VA/5200W				
Waveform	Pure sine wave				
AC Voltage (Battery Mode)	220VAC~240VAC				
Efficiency	>93%				
Frequency	50HZ/60HZ (automatic detection)				
Transfer Time	10ms(UPS, VDE4105) 20ms(APL)				
<b>Battery Parameters</b>					
Battery Voltage	48VDC				
Battery over voltage alarm	≥60VDC				
Overcharge alarm voltage	60VDC				
Battery voltage range	40-60VDC				
Battery Type	Lithium-ion				
Configurable battery capacity (mAh)	5000	10000	15000	20000	
Charging Curve	3 Stages / Equalization				
Charging Strategy for Li-ion Battery	Self-adaption to BMS				
<b>PV Charge &amp; Grid charge</b>					
Maximum PV input voltage	450VDC				
Photovoltaic MPPT voltage range	150-430 VDC				
Maximum solar charge current	80Amp				
Maximum AC charge current	60Amp				
Maximum hybrid charge current	80Amp				
<b>Protection</b>					
Anti-island protection	Yes				
Insulation Resistor Detection	Yes				
Output Over Current Protection	Yes				
Output Short-circuit Protection	Yes				
Surge Protection	Yes				
<b>Basic Parameters</b>					
Humidity	5% ~ 95% Relative humidity (non-condensing)				
Operating Temperature	0°C ~ 55°C (>45°C Derating)				
Storage Temperature	-10°C ~ 60°C				
Weight (kg)	25				
Size (W x H x D mm)	340 x 600 x 320				
Protection Degree	IP20				
Installation Style	Stacked				

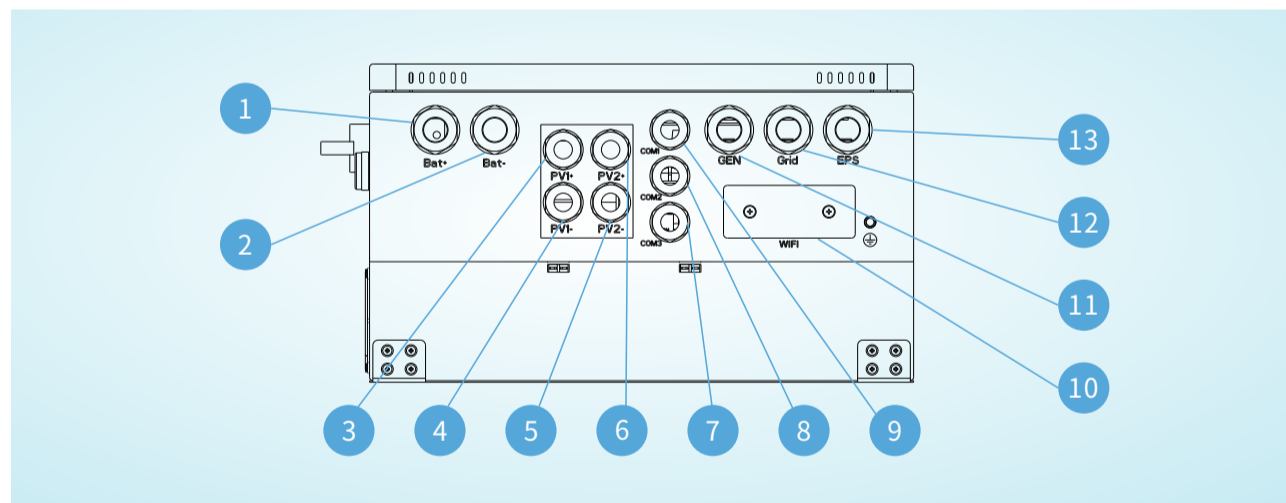
## THREE PHASE HYBRID INVERTER



### PRODUCT FEATURE

- 100% three-phase unbalanced output, each phase capable of delivering up to 50% of the rated power
- AC couple to retrofit existing solar system
- Max. 10 pcs parallel for on-grid and off-grid operation; Support multiple batteries parallel
- Max. charging/discharging current 240A
- 48V low voltage battery, transformer isolation design
- 6 time periods for battery charging/discharging
- Support storing energy from diesel generator

### PRODUCT CHARACTERISTICS



- |         |         |         |         |          |          |         |
|---------|---------|---------|---------|----------|----------|---------|
| 1. Bat+ | 3. PV1+ | 5. PV2+ | 7. COM3 | 9. COM1  | 11. GEN  | 13. EPS |
| 2. Bat- | 4. PV1- | 6. PV2- | 8. COM2 | 10. WIFI | 12. Grid |         |










Model	PD0080G-TPM-EU	PD0100G-TPM-EU	PD0120G-TPM-EU
<b>PV String Input Data</b>			
Max. DC Input Power (W)	10400	13000	15600
Rated PV Input Voltage (V)	550 (160-800)		
Start-up Voltage (V)	160		
MPPT Voltage Range (V)	200-650		
Full Load MPPT Voltage Range (V)	350-650		
Max. DC Input Current of Each Series (A)	13+13	26+13	
Max. DC Short Circuit Current (A)	17+17	34+17	
No. of MPPT Trackers	2		
No. of Strings per MPPT Tracker	1+1	2+1	
<b>AC Output Data</b>			
Rated AC Output Power (W)	8000	10000	12000
Max AC Output Power (W)	8800	11000	13000
AC Output Rated Current (A)	12.1	16.7	18.2
Max AC Output Current (A)	13.4	18.4	20
Max Output short circuit current (A)	75		
Max. Continuous AC Passthrough (A)	45		
Peak Power (off grid)	2 times of rated power, 10 S		
Power Factor	0.8 leading - 0.8 lagging		
Output Frequency and Voltage	50/60Hz; 3L/N/PE 220/380Vac, 230/400Vac		
Grid Type	Three Phase		
Total Harmonic Distortion (THDi)	<3% (of nominal power)		
<b>Battery Input Data</b>			
Battery Type	Lead-acid or Lithium-ion		
Battery Voltage Range (V)	40-60		
Max. Charging Current (A)	160	200	240
Max. Discharging Current (A)	190	210	240
External Temperature Sensor	Yes		
Charging Curve	3 Stages / Equalization		
Charging Strategy for Li-Ion Battery	Self-adaption to BMS		
<b>Efficiency</b>			
Max. Efficiency	97.6%		
Euro Efficiency	97.0%		
MPPT Efficiency	99.0%		
<b>Protection</b>			
Anti-islanding Protection	Yes		
PV String Input Reverse Polarity Protection	Yes		
Insulation Resistor Detection	Yes		
Residual Current Monitoring Unit	Yes		
Output Over Current Protection	Yes		
Output Shorted Protection	Yes		
Output overvoltage protection	Yes		
Photovoltaic input lightning protection	Yes		
Surge Protection	DC Type III / AC Type III		
Over Voltage Category	DC Type II/AC Type III		
<b>Certifications and Standards</b>			
Grid Regulation	IEC61727/62116, EN50549-1		
Safety EMC / Standard	IEC/EN 61000-6-1/2/3/4, IEC/EN 62109-1, IEC/EN 62109-2		
<b>General Data</b>			
Operating Temperature Range (°C)	-40~60°C, >45°C Derating		
Cooling	Smart Cooling		
Noise (dB)	≤50 dB		
Communication with BMS	RS485; CAN		
Monitoring mode	wifi+APP		
Weight (kg)	37.5		
Size (H x W x D mm)	702 x 422 x 281 (Excluding Connectors and Brackets)		
Protection Degree	IP65		
Installation Style	Wall-mounted		
Warranty	10 years		

## THREE PHASE HYBRID INVERTER



### PRODUCT FEATURE

-  100% three-phase unbalanced output, each phase capable of delivering up to 50% of the rated power
-  AC couple to retrofit existing solar system
-  Max. 10 pcs parallel for on-grid and off-grid operation; Support multiple batteries parallel
-  Max. charging/discharging current of 100A
-  High voltage battery, higher efficiency
-  6 time periods for battery charging/discharging
-  Support storing energy from diesel generator

Model	PD0100G-TPS-EU-A	PD0200G-TPS-EU-A
<b>PV String Input</b>		
Max. DC Input Power (W)	13000	26000
Max. DC Input Voltage (V)	1000	
Start-up Voltage (V)	180	
MPPT Voltage Range (V)	150-850	
Full Load DC Voltage Range (V)	325-850	500-850
Rated DC Input Voltage (V)	600	
PV Input Current (A)	20+20	26+26
Max. PV Isc (A)	30+30	39+39
No. of MPP Trackers	2	
No. of Strings per MPP Tracker	1+1	2+1
<b>AC Output</b>		
Rated AC Output Power (W)	10000	20000
Max. AC Output Power (W)	11000	22000
AC Output Rated Current (A)	15.0	30.0
Max. AC Output Current (A)	16.5	33.0
Max. Three-phase Unbalanced Output Current (A)	22	35
Max. Continuous AC Passthrough (A)	40	80
Peak Power (Off Grid)	1.5 times of rated power, 10 S	
Generator Input/Smart Load/AC Couple Current (A)	15.2/40/15.2	30.4/80/30.4
Power Factor	0.8 leading - 0.8 lagging	
Output Frequency and Voltage	50/60Hz; 3L/N/PE 220/380Vac, 230/400Vac	
Grid Type	Three Phase	
Total Harmonics Current Distortion (THDi)	<3% (of nominal power)	
DC Current Injection	<0.5% In	
<b>Battery</b>		
Battery Type	Lithium-ion	
Battery Voltage Range (V)	160-700	
Max. Charging Current (A)	37	
Max. Discharging Current (A)	37	
Number of Battery Input	1	
Charging Strategy for Li-ion Battery	Self-adaption to BMS	
<b>Efficiency</b>		
MAX. efficiency	97.6%	
Euro efficiency	97.0%	
MPPT efficiency	99.9%	
<b>Protection</b>		
Anti-islanding Protection	Yes	
PV String Input Reverse Polarity Protection	Yes	
Insulation Resistor Detection	Yes	
Residual Current Monitoring Unit	Yes	
Output Over Current Protection	Yes	
Output Shorted Protection	Yes	
Surge Protection	Yes	
Arc Fault Circuit Interruption (AFCI optional)	Yes	
Over Voltage Category	DC Type II/AC Type III	
<b>Certifications and Standards</b>		
Grid Regulation	IEC61727/62116, EN50549-1	
Safety EMC / Standard	IEC/EN 61000-6-1/2/3/4, IEC/EN 62109-1, IEC/EN 62109-2	
<b>General Data</b>		
Operating Temperature Range (°C)	-40-60°C, >45°C Derating	
Cooling	Smart Cooling	
Noise (dB)	≤65 dB	
Communication with BMS	CAN	
Monitoring mode	WIFI, APP	
Weight (kg)	80	
Size (WxHxD mm)	408×638×237 (Excluding Connectors and Brackets)	
Ingress Protection	IP65	
Installation Style	Wall-mounted	
Warranty	5 Years (10 Years Optional)	



## THREE PHASE HYBRID INVERTER



### PRODUCT FEATURE

- 100% three-phase unbalanced output, with each phase capable of delivering up to 50% of the rated power
- AC couple to retrofit existing solar system
- \*Max. 10 pcs parallel for on-grid and off-grid operation; Support multiple batteries parallel
- Max. charging/discharging current of 100A
- High voltage battery, higher efficiency
- 6 time periods for battery charging/discharging
- Support storing energy from diesel generator



Model	PD0300G-TPS-EU-A	PD0400G-TPS-EU-A	PD0500G-TPS-EU-A
<b>PV String Input</b>			
Max. DC Input Power (W)	39000	52000	65000
Max. DC Input Voltage (V)		1000	
Start-up Voltage (V)		180	
MPPT Range (V)		150-850	
Full Load MPPT Voltage Range (V)	360-850	360-850	450-850
Rated DC Input Voltage (V)		600	
PV Input Current (A)	36+36+36		36+36+36+36
Max. PV Isc (A)	55+55+55		55+55+55+55
No. of MPP Trackers	3		4
No. of Strings per MPP Tracker	2+2+2		2+2+2+2
<b>AC Output</b>			
Rated AC Output Power (W)	30000	40000	50000
Max. AC Output Power (W)	3300	44000	55000
AC Output Rated Current (A)	45.6	60.8	76.0
Max. AC Output Current (A)	50.2	66.9	83.6
Max. Three-phase Unbalanced Output Current (A)	60	70	83.3
Max. Continuous AC Passthrough (A)		200	
Peak Power (Off Grid)		1.5 times of rated power, 10 S	
Generator Input/Smart Load/AC Couple Current (A)	45.5 / 200 / 45.5	60.7 / 200 / 60.7	75.8 / 200 / 75.8
Power Factor		0.8 leading - 0.8 lagging	
Output Frequency and Voltage		50/60Hz; 3L/N/PE 220/380Vac 230/400Vac	
Grid Type		Three Phase	
Total Harmonics Current Distortion (THDi)		<3% (of nominal power)	
DC Current Injection		<0.5% In	
<b>Battery</b>			
Battery Type		Lithium-ion	
Battery Voltage Range (V)		160-800	
Max. Charging Current (A)		50+50	
Max. Discharging Current (A)		50+50	
Number of Battery Input		2	
Charging Strategy for Li-ion Battery		Self-adaption to BMS	
<b>Efficiency</b>			
Max. efficiency		97.6%	
Euro efficiency		97.0%	
MPPT efficiency		99.9%	
<b>Protection</b>			
Anti-islanding Protection		Yes	
PV String Input Reverse Polarity Protection		Yes	
Insulation Resistor Detection		Yes	
Residual Current Monitoring Unit		Yes	
Output Over Current Protection		Yes	
Output Shorted Protection		Yes	
Surge Protection		Yes	
Arc Fault Circuit Interruption (AFCI optional)		Yes	
Over Voltage Category		DC Type II/AC Type III	
<b>Certifications and Standards</b>			
Grid Regulation		IEC61727/62116, EN50549-1	
Safety EMC / Standard		IEC/EN 61000-6-1/2/3/4, IEC/EN 62109-1, IEC/EN 62109-2	
<b>General Data</b>			
Operating Temperature Range (°C)		-40-60°C, >45°C Derating	
Cooling		Smart Cooling	
Noise (dB)		≤65 dB	
Communication with BMS		CAN	
Monitoring mode		WIFI, APP	
Weight (kg)		80	
Size (WxHxD mm)		527×894×294 (Excluding Connectors and Brackets)	
Ingress Protection		IP65	
Installation Style		Wall-mounted	
Warranty		5 Years (10 Years Optional)	