







SINGLE PHASE HYBRID INVERTER

PD0060G-SPM-EU

FEATURES

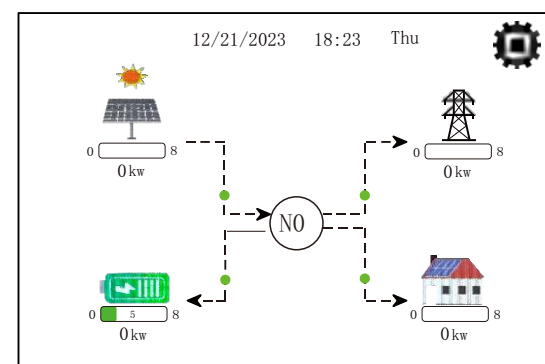
-  COLORFUL TOUCH LCD, IP65 PROTECTION DEGREE
-  AC COUPLING TO RETROFIT EXISTING SOLAR SYSTEM
-  MAX. 16 PCS PARALLEL FOR ON-GRID AND OFF-GRID OPERATION; SUPPORT MULTIPLE BATTERIES PARALLEL
-  MAX. CHARGING/DISCHARGING CURRENT OF 135A
-  6 TIME PERIODS FOR BATTERY CHARGING/DISCHARGING
-  SUPPORT STORING ENERGY FROM DIESEL GENERATOR



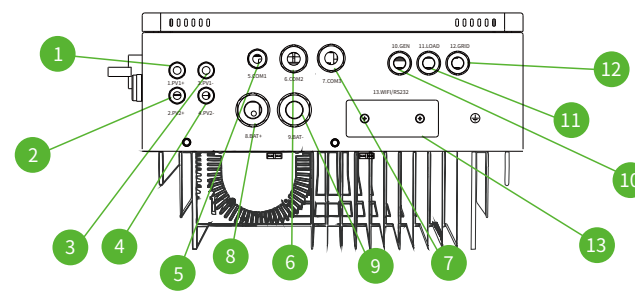
CERTIFICATIONS



LCD DISPLAY ICONS

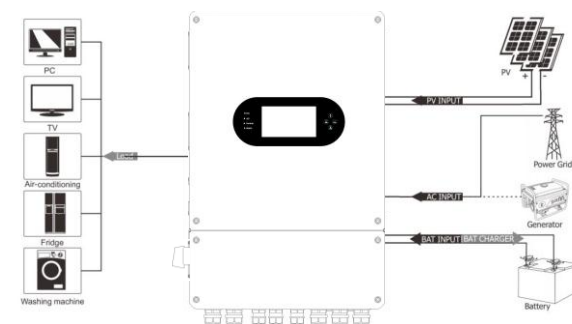


PRODUCT CHARACTERISTICS



- 1.PV1+ 3.PV1- 5.COM1 7.COM3 9.BAT- 11.LOAD
- 2.PV2+ 4.PV2- 6.COM2 8.BAT+ 10.GEN 12.GRID
- 13.WIFI

BASIC SYSTEM ARCHITECTURE




Data Sheet


Model	PD0060G-SPM-EU
PV String Input Data	
Max. DC Input Power (W)	7800
Rated PV Input Voltage (V)	370 (125-500)
Start-up Voltage (V)	125
MPPT Voltage Range (V)	150-430
Full Load MPPT Voltage Range (V)	300-430
Max. DC Input Current(A)	20+20
Max. DC Short Circuit Current(A)	22+22
No.of MPPT Trackers	2
No.of Strings per MPPT Tracker	1+1
AC Output Data	
Rated AC Output Power (W)	6000
Max AC Output Power (W)	6600
AC Output Rated Current (A)	27.3
Max AC Output Current (A)	30
Max.Continuous AC Passthrough (A)	40
Peak Power (off grid)	2 times 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)
Battery Input Data	
Battery Type	Lead-acid or Lithium-ion
Battery Voltage Range (V)	40-60
Max. Charging Current (A)	135
Max. Discharging Current (A)	135
External Temperature Sensor	Yes
Charging Curve	3 Stages / Equalization
Charging Strategy for Li-Ion Battery	Self-adaption to BMS
Efficiency	
Max. Efficiency	97.60%
Euro Efficiency	96.50%
MPPT Efficiency	99.90%
Protection	
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
Certifications and Standards	
Grid Regulation	IEC61727/EN50549-1
Safety EMC / Standard	IEC/EN 61000-6/2/4, IEC/EN 62109-1, IEC/EN 62109-2
General Data	
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)	24
Size (W x H x D mm)	580x330x252mm
Protection Degree	IP65
Installation Style	Wall-mounted
Warranty	5 Years (10Years Optional)


SINGLE PHASE HYBRID INVERTER


PD0080G-SPM-EU


FEATURES


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COLORFUL TOUCH LCD, IP65 PROTECTION DEGREE
- 

AC COUPLING TO RETROFIT EXISTING SOLAR SYSTEM
- 

MAX. 16 PCS PARALLEL FOR ON-GRID AND OFF-GRID OPERATION; SUPPORT MULTIPLE BATTERIES PARALLEL
- 

MAX. CHARGING/DISCHARGING CURRENT OF 190A
- 

6 TIME PERIODS FOR BATTERY CHARGING/DISCHARGING
- 

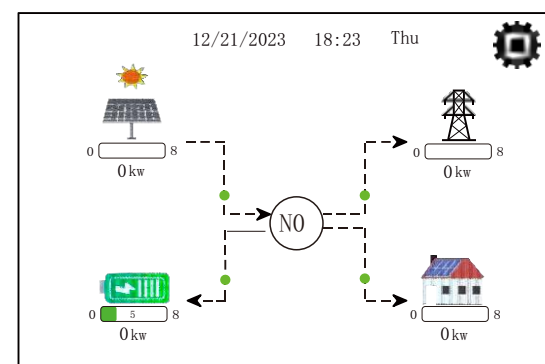
SUPPORT STORING ENERGY FROM DIESEL GENERATOR



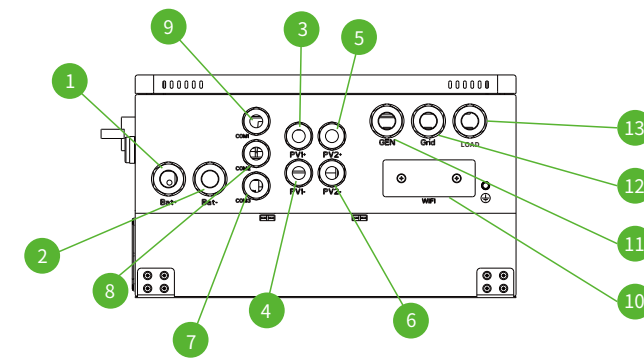
CERTIFICATIONS



LCD DISPLAY ICONS

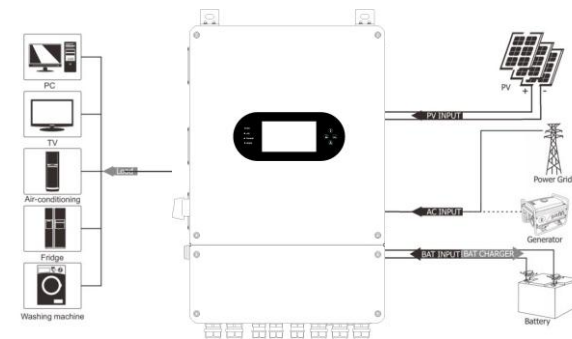


PRODUCT CHARACTERISTICS



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

BASIC SYSTEM ARCHITECTURE









Data Sheet

Model	PD0080G-SPM-EU
PV String Input Data	
Max. DC Input Power (W)	10400
Rated PV Input Voltage (V)	370 (125-500)
Start-up Voltage (V)	125
MPPT Voltage Range (V)	150-430
Full Load MPPT Voltage Range (V)	200-430
Max. DC Input Current(A)	26+26
Max. DC Short Circuit Current(A)	34+34
No.of MPPT Trackers	2
No.of Strings per MPPT Tracker	2+2
AC Output Data	
Rated AC Output Power (W)	8000
Max AC Output Power (W)	8800
AC Output Rated Current (A)	36.4
Max AC Output Current (A)	40
Max Continuous AC Passthrough (A)	50
Peak Power (off grid)	2 times 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)
Battery Input Data	
Battery Type	Lead-acid or Lithium-ion
Battery Voltage Range (V)	40-60
Max. Charging Current (A)	190
Max. Discharging Current (A)	190
External Temperature Sensor	Yes
Charging Curve	3 Stages / Equalization
Charging Strategy for Li-Ion Battery	Self-adaption to BMS
Efficiency	
Max. Efficiency	97.60%
Euro Efficiency	96.50%
MPPT Efficiency	99.90%
Protection	
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
Certifications and Standards	
Grid Regulation	IEC61727, EN50549-1
Safety EMC / Standard	IEC/EN 61000-6/2/4, IEC/EN 62109-1, IEC/EN 62109-2
General Data	
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)	29
Size (W x H x D mm)	630x413x258mm
Protection Degree	IP65
Installation Style	Wall-mounted
Warranty	5 Years (10Years Optional)

SINGLE PHASE HYBRID INVERTER

PD0100G-SPM-EU/ PD0120G-SPM-EU

FEATURES

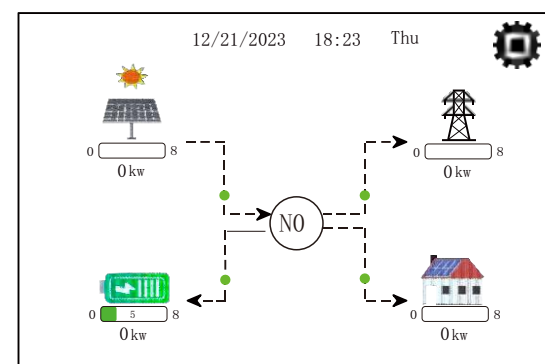
- 
COLORFUL TOUCH LCD, IP65 PROTECTION DEGREE
- 
AC COUPLING TO RETROFIT EXISTING SOLAR SYSTEM
- 
MAX. 16 PCS PARALLEL FOR ON-GRID AND OFF-GRID OPERATION; SUPPORT MULTIPLE BATTERIES PARALLEL
- 
MAX. CHARGING/DISCHARGING CURRENT OF 250A
- 
6 TIME PERIODS FOR BATTERY CHARGING/DISCHARGING
- 
SUPPORT STORING ENERGY FROM DIESEL GENERATOR



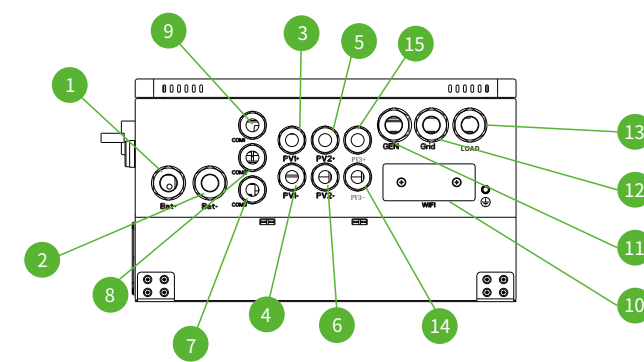
CERTIFICATIONS



LCD DISPLAY ICONS

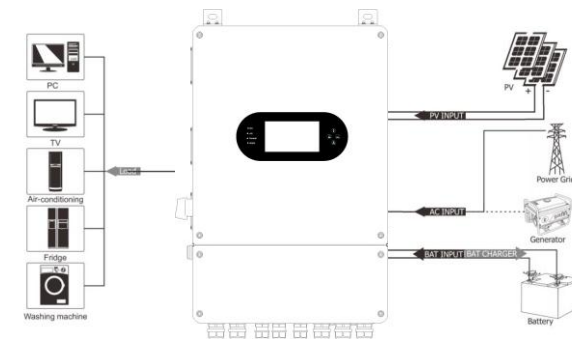


PRODUCT CHARACTERISTICS



- 1.Bat+
- 2.Bat-
- 3.PV1+
- 4.PV1-
- 5.PV2+
- 6.PV2-
- 7.COM3
- 8.COM2
- 9.COM1
- 10.WIFI
- 11.GEN
- 12.Grid
- 13.LOAD
- 14.PV3+
- 15.PV3-

BASIC SYSTEM ARCHITECTURE




Data Sheet


Model	PD00100G-SPM-EU	PD00120G-SPM-EU
Battery Input Date		
Battery Type	Lead-acid or Li-Ion	
Battery Voltage Range(V)	40-60	
Max. Charging Current(A)	220	250
Max. Discharging Current(A)	220	250
Charging Curve	3 Stages / Equalization	
External Temperature Sensor	yes	
Charging Strategy for Li-Ion Battery	Self-adaption to BMS	
PV String Input Data		
Max. DC Input Power(W)	13000	15600
PV Input Voltage(V)	370V (125V-500V)	
MPPT Range(V)	150-425V	
Full Load DC Voltage Range	200-425V	
Start-up Voltage(V)	125V	
PV Input Current(A)	26+26+26	26+26+26
No. of MPPT Trackers	3	3
No. of Strings Per MPPT Tracker	2+2+2	2+2+2
AC Output Data		
Rated AC Output and UPS Power(W)	10000	12000
Max. AC Output Power(W)	11000	13200
Peak Power(offline)	2 times of rated power, 10 S	
AC Output Rated Current(A)	43.5	52.2
Max. AC Current(A)	47.8	57.4
Max. Continuous AC Passthrough(A)	60	60
Power Factor	0.8 leading - 0.8 lagging	
Output Frequency and Voltage	50/60Hz; L/N/PE 220/230V (single phase)	
Grid Type	Single Phase	
Total Harmonic Distortion (THD)	<3% (of nominal power)	
DC current injection	<0.5% I _n	
Efficiency		
Max. Efficiency	97.60%	
Euro Efficiency	96.50%	
MPPT Efficiency	>99%	
Protection		
PV Arc Fault Detection	Integrated	
PV Input Lightning Protection	Integrated	
Anti-islanding Protection	Integrated	
PV String Input Reverse Polarity Protection	Integrated	
Insulation Resistor Detection	Integrated	
Residual Current Monitoring Unit	Integrated	
Output Over Current Protection	Integrated	
Output Shorted Protection	Integrated	
Over Voltage Category	Integrated	
Surge Protection	DC Type II / AC Type II	
Certifications and Standards		
Grid Regulation	IEC61727/EN50549-1	
EMC/Safety Regulation	IEC/EN 61000-6/2/4, IEC/EN 62109-1, IEC/EN 62109-2	
General Data		
Operating Temperature Range(°C)	-40~60°C, >45°C Derating	
Cooling	Smart cooling	
Noise(dB)	<30 dB	
Communication with BMS	Rs485; CAN	
Weight(kg)	31	
Cabinet size(mm)	330W*580H*232D (Excluding connectors and brackets)	
Protection Degree	Ip65	
Installation Style	Wall-mounted	
Warranty	5 Years (10 Years Optional)	


THREE PHASE HYBRID INVERTER


PD006/08/10/120G-TPM-EU


FEATURES


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100% THREE-PHASE UNBALANCED OUTPUT, WITH EACH PHASE CAPABLE OF DELIVERING UP TO 50% OF THE RATED POWER
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AC COUPLING TO RETROFIT EXISTING SOLAR SYSTEM
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MAX. 10 PCS PARALLEL FOR ON-GRID AND OFF-GRID OPERATION; SUPPORT MULTIPLE BATTERIES PARALLEL
- 

MAX. CHARGING/DISCHARGING CURRENT OF 240A
- 

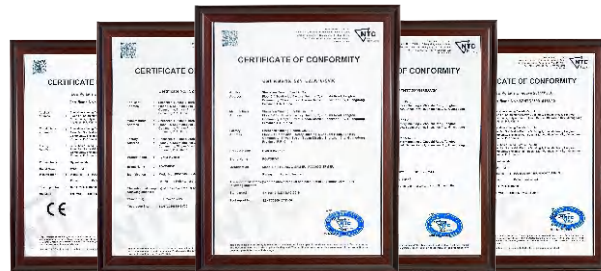
48V LOW VOLTAGE BATTERY, TRANSFORMER ISOLATION DESIGN
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6 TIME PERIODS FOR BATTERY CHARGING/DISCHARGING
- 

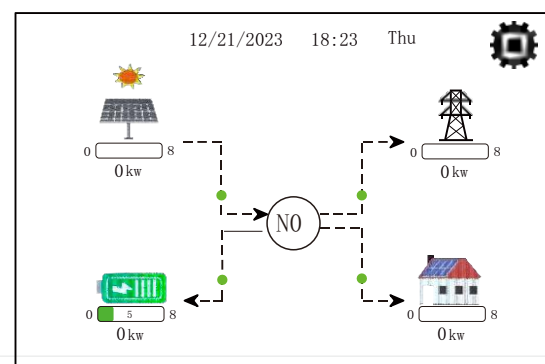
SUPPORT STORING ENERGY FROM DIESEL GENERATOR



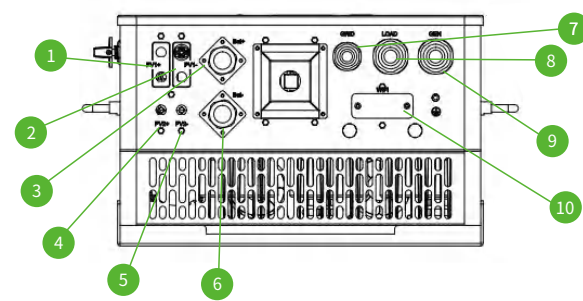
CERTIFICATIONS



LCD DISPLAY ICONS

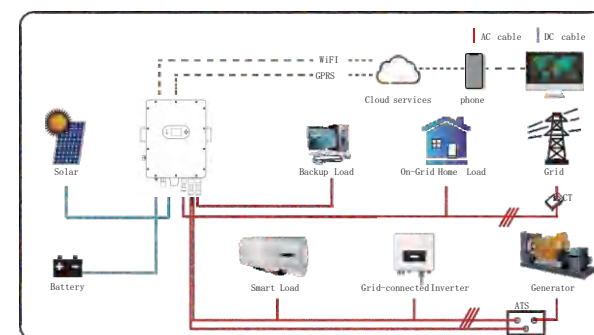


PRODUCT CHARACTERISTICS



- 1.PV1+
- 2.PV1-
- 3.Bat+
- 4.PV2+
- 5.PV2-
- 6.Bat-
- 7.Grid
- 8.LOAD
- 9.Gen
- 10.WiFi Interface

BASIC SYSTEM ARCHITECTURE




Data Sheet


Model	PD0060G-TPM-EU	PD0080G-TPM-EU	PD0100G-TPM-EU	PD0120G-TPM-EU
PV String Input				
Max. DC Input Power (W)	7800	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(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	
AC Output				
Rated AC Output Power (W)	6000	8000	10000	12000
Max AC Output Power (W)	6600	8800	11000	13200
AC Output Rated Current (A)	9.1	12.1	16.7	18.2
Max AC Output Current (A)	10	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)			
DC Current Injection	<0.5% In			
Battery				
Battery Type	Lead-acid or Lithium-ion			
Battery Voltage Range (V)	40-60			
Max. Charging Current (A)	120	160	200	240
Max. Discharging Current (A)	120	160	200	240
External Temperature Sensor	Yes			
Charging Curve	3 Stages / Equalization			
Charging Strategy for Li-ion Battery	Self-adaption to BMS			
Efficiency				
Max. Efficiency	97.6%			
Euro Efficiency	97.0%			
MPPT Efficiency	99.0%			
Protection				
Anti-islanding Protection	Yes			
PV String Input Reverse Polarity	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	Yes			
Surge Protection	DC Type III / AC Type III			
Over Voltage Category	DC Type II/AC Type III			
Certifications and Standards				
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			
General Data				
Operating Temperature Range (°C)	-40~60°C, >45°C Derating			
Cooling	Smart Cooling			
Noise (dB)	≤50 dB			
Communication to BMS	RS485; CAN			
Monitoring mode	Wi-Fi+APP			
Weight (kg)	37.5			
Size (W x H x D mm)	702x422x281 (Excluding Connectors and Brackets)			
Ingress Protection	Ip65			
Installation Style	Wall-mounted			
Warranty	5 Years (10 Years Optional)			


THREE PHASE STRING INVERTER


PC030/40/500G-TP-EU


FEATURES

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MAX. 4 MPP TRACKERS, MAX. EFFICIENCY UP TO 98.7%
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ZERO EXPORT APPLICATION, VSG APPLICATION
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STRING INTELLIGENT MONITORING (OPTIONAL)
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WIDE OUTPUT VOLTAGE RANGE
- 

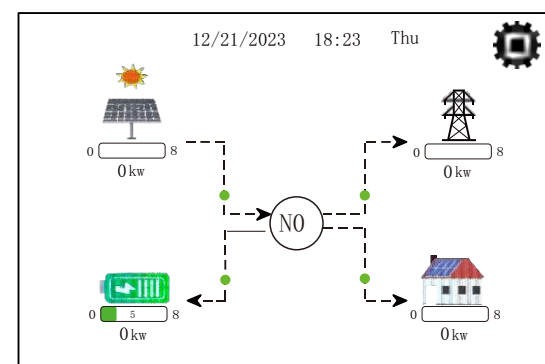
ANTI-PID FUNCTION (OPTIONAL)



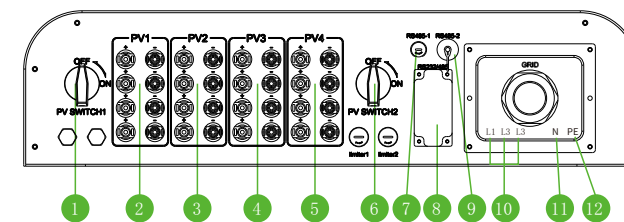
CERTIFICATIONS



LCD DISPLAY ICONS

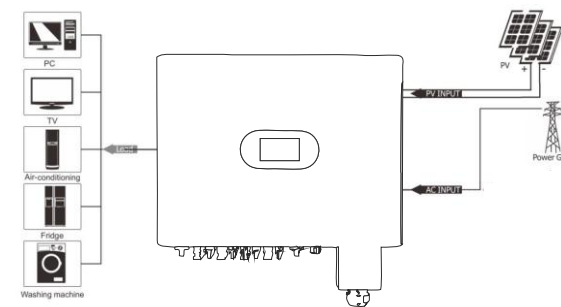


PRODUCT CHARACTERISTICS



- 1.DC SWITCH1
- 2.PV1
- 3.PV2
- 4.PV3
- 5.PV4
- 6.DCSWITCH2
- 7.RS485-1
- 8.WIFI
- 9.RS485-2
- 10.L
- 11.N
- 12.PE

BASIC SYSTEM ARCHITECTURE



Data Sheet

Model	PC0300G-TP-EU	PC0400G-TP-EU	PC0500G-TP-EU
PV String Input			
Max. DC Input Power (kW)	39	52	65
Max. DC Input Voltage (V)	1000		
Start-up DC Input Voltage (V)	250		
MPPT Operating Range (V)	200-850		
Max. DC Input Current (A)	40+40	40+40+40	40+40+40+40
Max. 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+3	3+3+3	3+3+3 +3
AC Output			
Rated Output Power (kW)	30	40	50
Max. Output Power (kW)	33	44	55
Nominal Output Voltage / Range (V)	3L/N/PE 220/380Vac, 230/400Vac		
Frequency (Hz)	50 / 60 Hz		
Grid Type	Three phase		
Rated AC Grid 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		
Grid Current THDI	<3%		
DC Injection Current (mA)	<0.5% I _n		
Grid Frequency Range	47-52 / 57-62 Hz		
Efficiency			
Max. Efficiency	98.5%		
Euro Efficiency	98%		
MPPT Efficiency	99%		
Protection			
DC Reverse-Polarity Protection	Yes		
AC Short Circuit Protection	Yes		
AC Output Over current Protection	Yes		
Output Over voltage 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		
Certifications and Standards			
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		
General Data			
Size (mm)	650Wx540Hx305D		
Weight (kg)	45		
Topology	Transformerless		
Self-consumption	10W (Night)		
Running Temperature	-25-65°C, >45°C derating		
Ingress Protection	IP65		
Noise (Typical)	<50 dB		
Cooling Concept	Smart cooling		
Max. Operating Altitude Without Derating	2000m		
Warranty	5 years		
Relative Humidity	0-100%		
Features			
DC Connect Plug	MC-4 available		
AC Connect Plug	IP65 plug		
Display	LCD 240 x 160		
Interface	RS485/RS232/Wifi/CAN		

THREE PHASE HYBRID INVERTER

PD010/200G-TPS-EU-A

FEATURES

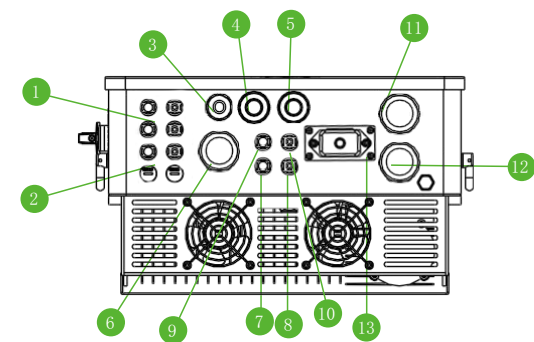
- 100% THREE-PHASE UNBALANCED OUTPUT, WITH EACH PHASE CAPABLE OF DELIVERING UP TO 50% OF THE RATED POWER
- AC COUPLING TO RETROFIT EXISTING SOLAR SYSTEM
- MAX. 10 PCS PARALLEL FOR ON-GRID AND OFF-GRID
- SUPPORT MULTIPLE BATTERIES PARALLEL
- HIGH VOLTAGE BATTERY, HIGHER EFFICIENCY
- 6 TIME PERIODS FOR BATTERY CHARGING/DISCHARGING
- SUPPORT STORING ENERGY FROM DIESEL GENERATOR



CERTIFICATIONS

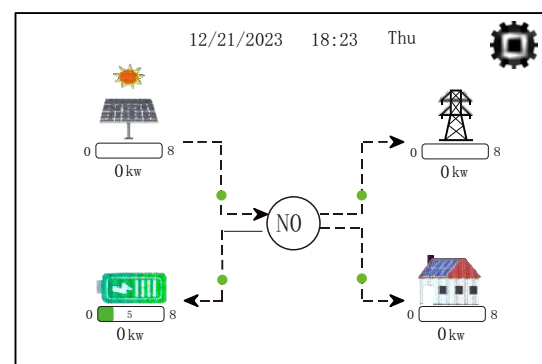


PRODUCT CHARACTERISTICS

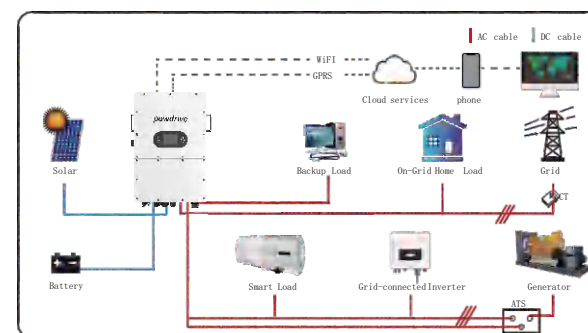


- 1.PV1 3.COM1 5.COM3 7.BAT1+ 9.BAT2+ 11.GEN 13.WIFI
- 2.PV2 4.COM2 6.Grid 8.BAT1- 10.BAT2- 12.LOAD

LCD DISPLAY ICONS



BASIC SYSTEM ARCHITECTURE



Data Sheet

Model	PD0100G-TPS-EU-A	PD0200G-TPS-EU-A
PV String Input		
Max. DC Input Power (W)	13000	26000
Max. DC Input Voltage (V)	1000	
Start-up Voltage (V)	180	
MPPT 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 MPPT Trackers	2	
No. of Strings per MPPT Tracker	1+1	2+2
AC Output		
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% I _n	
Battery		
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	
Efficiency		
Max. Efficiency	97.6%	
Euro Efficiency	97.0%	
MPPT Efficiency	99.9%	
Protection		
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	
Certifications and Standards		
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	
General Data		
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)	408x638x237 (Excluding Connectors and Brackets)	
Ingress Protection	Ip65	
Installation Style	Wall-mounted	
Warranty	5 Years (10 Years Optional)	

THREE PHASE HYBRID INVERTER

PD030/40/500G-TPS-EU-A

FEATURES

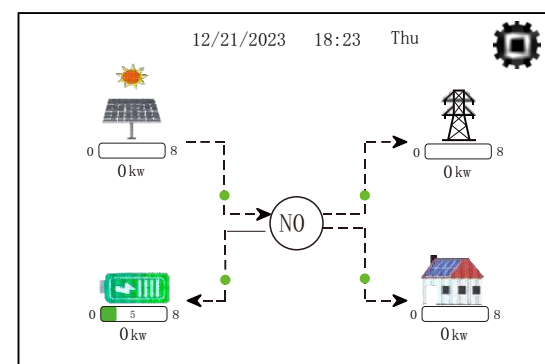
- 100% THREE-PHASE UNBALANCED OUTPUT, WITH EACH PHASE CAPABLE OF DELIVERING UP TO 50% OF THE RATED POWER
- AC COUPLING TO RETROFIT EXISTING SOLAR SYSTEM
- MAX. 10 PCS PARALLEL FOR ON-GRID AND OFF-GRID
- SUPPORT MULTIPLE BATTERIES PARALLEL
- HIGH VOLTAGE BATTERY, HIGHER EFFICIENCY
- 6 TIME PERIODS FOR BATTERY CHARGING/DISCHARGING
- SUPPORT STORING ENERGY FROM DIESEL GENERATOR



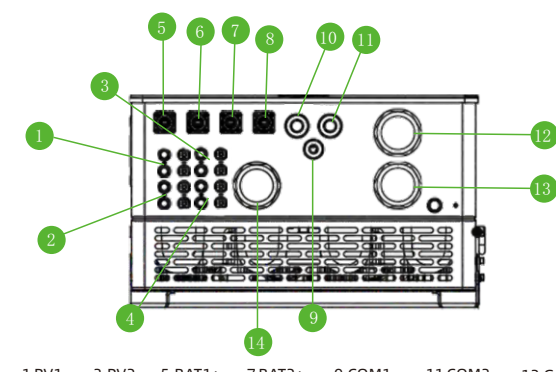
CERTIFICATIONS



LCD DISPLAY ICONS

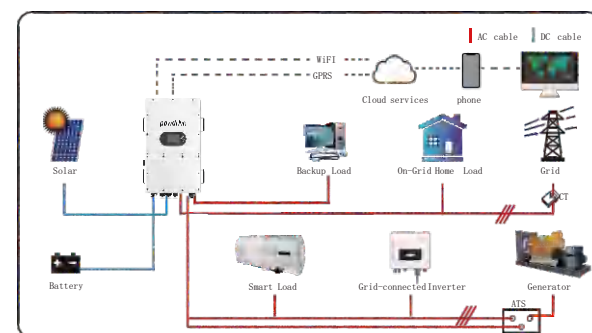


PRODUCT CHARACTERISTICS



- 1.PV1 3.PV2 5.BAT1+ 7.BAT2+ 9.COM1 11.COM3 13.Grid
- 2.PV2 4.PV4 6.BAT1- 8.BAT2- 10.COM2 12.GEN 14.LOAD

BASIC SYSTEM ARCHITECTURE




Data Sheet


Model	PD0300G-TPS-EU-A	PD0400G-TPS-EU-A	PD0500G-TPS-EU-A
PV String Input			
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 MPPT Trackers	3	4	
No. of Strings per MPPT Tracker	2+2+2	2+2+2+2	
AC Output			
Rated AC Output Power (W)	30000	40000	50000
Max. AC Output Power (W)	33000	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		
Battery			
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		
Efficiency			
Max. efficiency	97.6%		
Euro efficiency	97.0%		
MPPT efficiency	99.9%		
Protection			
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		
Certifications and Standards			
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		
General Data			
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)	527x894x294 (Excluding Connectors and Brackets)		
Ingress Protection	IP65		
Installation Style	Wall-mounted		
Warranty	5 Years (10 Years Optional)		


SINGLE PHASE HYBRID INVERTER


PH0030/52G-SPM-EU


FEATURES


- 


GRID CHARGE CURRENT UP TO 60A, LCD SCREEN CAN SET THE CHARGE CURRENT AND CHARGE VOLTAGE
- 


MAXIMUM PV INPUT VOLTAGE 450V
- 


WITH BATTERY OVER-DISCHARGE PROTECTION, OVERLOAD PROTECTION, OVER-TEMPERATURE PROTECTION, SHORT-CIRCUIT PROTECTION
- 

WHEN INVERTER POWER OFF BASED ON BATTERY IS DISCHARGED, IT WILL AUTOMATICALLY TURN ON WHEN THE PV IS RESTORED
- 

WITH MULTI-MODE SETTING FUNCTION, THE PRIORITY OF PV, GRID AND BATTERY CAN BE SET BY LCD SCREEN
- 

PURE SINE WAVE OUTPUT, SUITABLE FOR VARIOUS TYPES OF LOADS
- 

WITH WIDE GRID INPUT VOLTAGE RANGE AND CAN BE SET BY LCD
- 

WITH COLD START SUPPORT USB,RS485 COMMUNICATION INTERFACE
- 

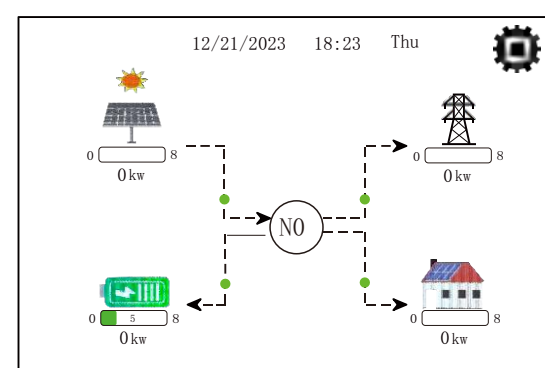
SUPPORT WIFI, CAN CHECK DATA ON APP (OPTIONAL)



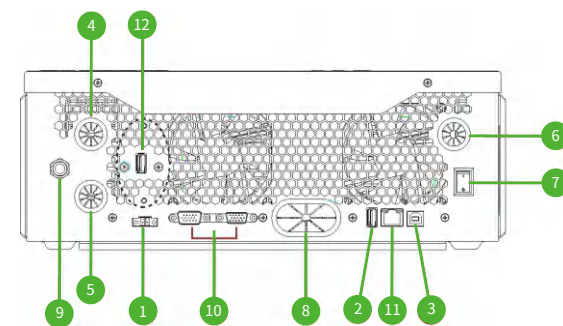
CERTIFICATIONS



LCD DISPLAY ICONS

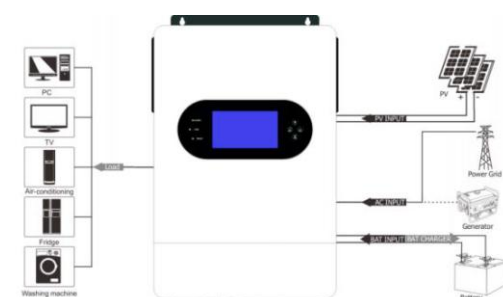


PRODUCT CHARACTERISTICS



- 1.Dry contact 3.USB 2 5.AC output 7.On/Off switch
- 2.USB 1 4.AC input 6.PV input 8.Battery input
- 9.Circuit breaker 10.Parallel 11.RS-485 12.USB WIFI

BASIC SYSTEM ARCHITECTURE



Data Sheet

Model Name	PH0030G-SPM-EU	PH0052G-SPM-EU	
Nominal voltage	48VDC	48VDC	
Inverter output	Rated Power	3000VA/3000W	5200VA/5200W
	waveform	pure sine wave	
	AC Voltage (Battery Mode)	220VAC~240VAC	
	Efficiency (Peak)	> 93%	
	frequency	50HZ/60HZ	
	Transfer Time	10ms(UPS, VDE4105) 20ms(APL)	
AC Input	Normal Voltage Range	230VAC	
	Voltage range	180~265VAC	
	Frequency	50Hz / 60Hz (automatic detection)	
Battery	Battery Voltage	48VDC	48VDC
	Battery over voltage alarm	≥60VDC	
	Overcharge alarm voltage	60VDC	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	
	PV Charge & Grid charge	Maximum PV input voltage	450VDC
PV MPPT voltage range		150~430 VDC	
Maximum solar charging current		60Amp	80Amp
Maximum AC charging current		40Amp	60Amp
Maximum charging current		60Amp	80Amp
Protection	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		
Certifications and Standards			
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		
Others	Size (W*H*D)	495*328*125mm	
	package size (W*H*D)	555*391*202mm	
	net weight (KG)	10.6	
	Gross Weight (KG)	12.6	
	Humidity	5% ~ 95% Relative humidity (non-condensing)	
	Operating Temperature	0℃ ~55℃(>45℃ Derating)	
Storage Temperature	-10℃ ~60℃		