

# SINGLE PHASE HYBRID INVERTER

## PH0030/52G-SPM-EU

### PRODUCT FEATURE



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



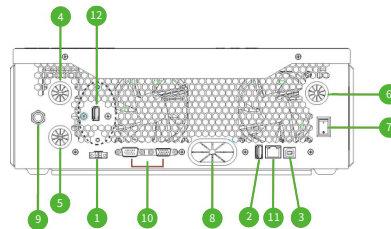
Support WIFI, can check data on APP (optional)



### CERTIFICATIONS

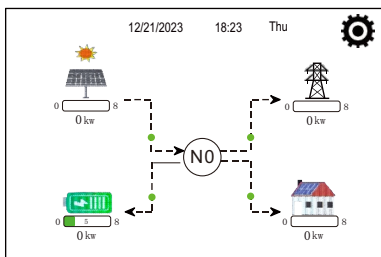


### PRODUCT CHARACTERISTICS

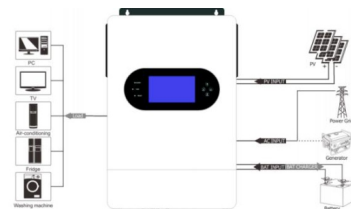


- 1. Dry contact      3. USB 2      5. AC output      7. Power On/ Off switch
- 2. USB 1          4. AC input      6. PV input      8. Battery input
- 9. Circuit breaker      10. Parallel      11. RS-485      12. USB WIFI

### LCD DISPLAY ICONS



### 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		
AC Input	Transfer Time	10ms(UPS, VDE4105) 20ms( APL)		
	Normal Voltage Range	230VAC		
	Voltage range	180~265VAC		
Battery	Frequency	50Hz / 60Hz ( automatic detection )		
	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 charge current		60Amp	80Amp	
Maximum AC charge current		40Amp	60Amp	
Protection	maximum charge current	60Amp	80Amp	
	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℃			