


# High Frequency Solar Inverter

## PV1800 VPK Series (1KW-5KW)






### Features

- Pure sine wave output
- Smart LCD setting(Working modes, Charge Current, Charge Voltage, etc.)
- Built-in PWM 50A/60A solar charge controller
- New SUB working mode(Solar-Utility-Battery working mode)
- Combining solar system, AC utility, and battery power source to supply continuous power
- Overload, short circuit and deep discharge protection
- Parallel operation with up to 3 units (Available for 4KW/5KW only)
- Cold start function
- Support USB, RS485 monitoring function with free CD
- WIFI remote monitoring (optional)
- Compatible to generator

### Introduction

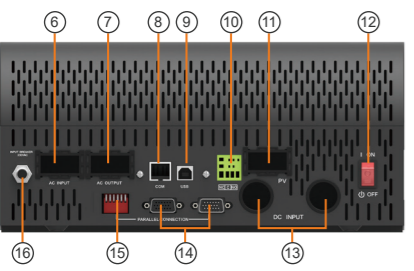
PV1800 VPK is a multi-function inverter/charger, combining functions of inverter, PWM solar charger and battery charger to offer uninterruptible power support with portable size. Its comprehensive LCD display offers user-configurable easy-accessible button operation such as battery charging current, AC/solar charger priority, and acceptable input voltage based on different applications.

### Back panel printing description



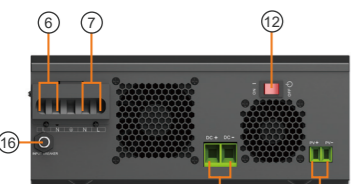
1. LCD Display
2. Status Indicator
3. Charging Indicator
4. Fault Indicator
5. Function Buttons

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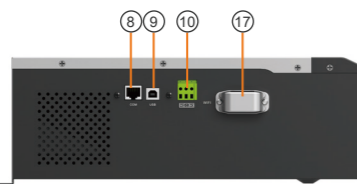


6. AC Input
7. AC Output
8. RS-485 Communication port
9. USB
10. Dry Contact
11. PV Input
12. Power On/Off Switch
13. Battery Input
14. Parallel communication port
15. Parallel switch
16. Circuit breaker
17. USB WiFi

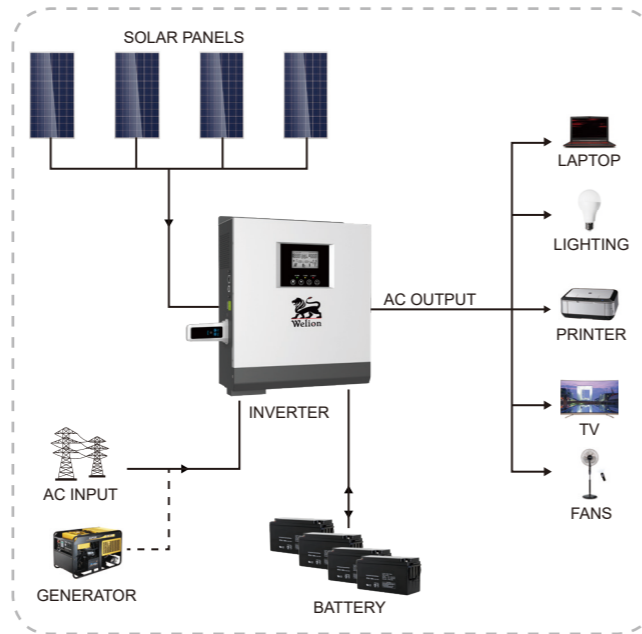
(4KW-5KW)(only for parallel model)



(3KW)



### Solar system connection



### Specification

MODEL		PV18-1012 VPK	PV18-2024 VPK	PV18-3024 VPK	PV18-4048 VPK	PV18-5048 VPK
Nominal Battery System Voltage		12VDC	24VDC		48VDC	
INVERTER OUTPUT	Rated Power	1000W	2000W	3000W	4000W	5000W
	Surge Power	2000W	4000W	6000W	8000W	10000W
	Waveform	Pure sine wave				
	AC Voltage Regulation (Batt.Mode)	(220VAC~240VAC)±5%				
	Inverter Efficiency(Peak)	93%				
	Transfer Time	10ms (UPS \ VDE4105) 20ms (APL)				
AC INPUT	Voltage	230VAC				
	Selectable Voltage Range	170~280VAC(For personal computer) \ 90~280VAC(For home appliances) \ 184~253VAC(VED4105)				
	Frequency Range	50Hz \ 60Hz(Auto sensing)				
BATTERY	Normal voltage	12VDC	24VDC	48VDC		
	Floating Charge Voltage	13.7VDC	27.4VDC	54.8VDC		
	Overcharge Protection	15.5VDC	30VDC	60VDC		
SOLAR CHARGER & AC CHARGER	Maximum PV Array Open Circuit Voltage	55VDC	75VDC	80VDC	105VDC	
	Standby Power Consumption	2W	2W		2W	
	(PWM)Maximum Solar Charge Current	50A	50A	60A	60A	
	Maximum AC Charge Current	10A or 20A	10A or 20A	20A or 30A	60A	
	Maximum ChargeCurrent	70A	70A	80A	120A	
MECHANICAL SPECIFICATIONS	Machine Dimensions (W*H*D)(mm)	225*355*92	225*355*92	272*355*100	297.5*468*125	
	Package Dimensions (W*H*D)(mm)	405*373*205	405*373*205	465*373*231	618*415*261	
	Net Weight(kg)	5.0	5.5	7.8	12	
	Gross Weight(kg)	6.0	6.5	10.3	13.5	
OTHER	Humidity	5% to 95% Relative humidity (Non-condensing)				
	Operating Temperature	0°C~50°C				
	Storage Temperature	-15°C ~60°C				