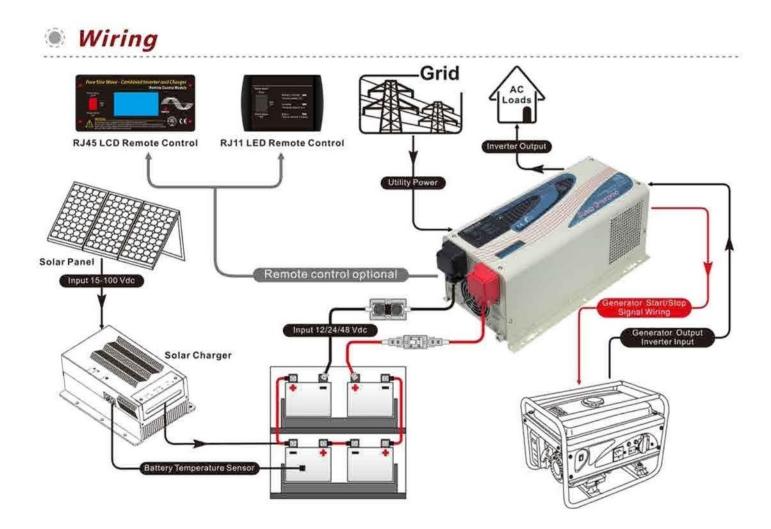
Off-grid installation is not rocket science! It is quite straight-forward.

Below you will find a line drawing showing the basic wiring of the system.

The output of this Inverter can be 120V, 240V, or both.





AP Series

APC Series Pure Sine Wave Inverter/Charger APS Series Pure Sine Wave Inverter/Charger/AVR

- Stabilizing the output AC voltage to a range of 230V+/-10%
- ◆ Connected with batteries, the APS inverter will function as a UPS with max transfer time of 10ms.
- With all the unique features from the inverter and AVR, it brings you long-term trouble free operation beyond your expectation.









































Product Description

• Feature of AP Series Inverter&Charger

- High overload ability of our AP charger is up to 300% rated power(20 sec)
- AP pure sine wave inverter adopts low quiescent current, and power saver mode to reduce power consumption to 10W(3s sensing cycle). It can extract max.
 power from various batteries with different protections, and low voltage trip can be selected (10V/10.5V or 10.5V/11V).
- Uses PFC(power factor correction) for charger, which has less power consumption than conventional units.
- It has 15s delay before transfer when AC resumes, and overload protection when our AP pure sine wave inverter equips with generator.
- 10ms typical transfer time between battery and AC, which guarantees power continuity of AP charger. Uses selectable input AC voltage (184-253V or 154-253V) for different kinds of loads.
- Our AP charger allows start up and through power with depleted batteries. Its powerful charge rate up to 90Amp.
- It can offer 3-step intelligent battery charging, and equipped with 8 preset battery type selector for totally flat batteries.
- LCD status display, battery/AC priority switch, RS232 communication port are available for our AP
 pure sine wave inverter, it also has 17 alarms/warnings for easier operation and trouble-shooting,
 and ability to switch the unit on/off. In addition, select/deselect power saver mode can be used too.









Product Dominance



On the DC end of inverter, there are 4 DIP switches which enable users to customize the performance of the device.

Switch NO Switch Function		Position: 0	Position: 1		
SW1	Low Battery Trip Volt	10.0VDC	10.5VDC		
SW2	AC Input Range	184-253VAC	154-253VAC		
SW3	Load Sensing Cycle	Night Charger function	3 seconds		
Sw4 Battery/AC Priority		Utility Priority	Battery Priority		

Low Battery Trip Volt:

The Low Battery Trip Volt is set at 10.0VDC by default. It can be customized to 10.5VDC.

AC Input Range:

There are different acceptable AC input ranges for different kinds of loads.

It can be customized from 184-253VAC to 154-253VAC.

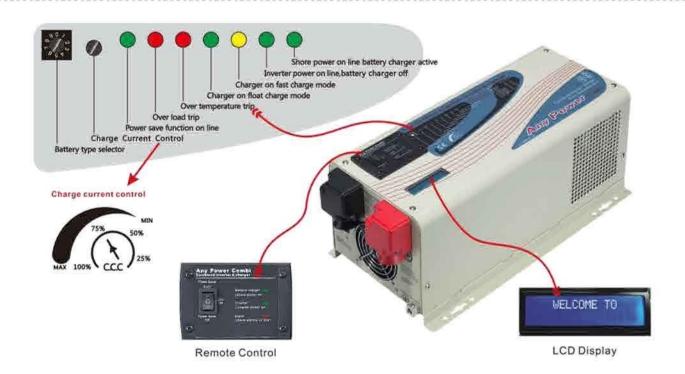
Load Sensing Cycle:

The inverter is factory defaulted to detect load for 250ms in every 3 seconds when SW3 setting position1. In NIGHT CHARGER position, the inverter will stay in standby mode without sensing loads. It won't output any power even if a load is turned on when working on battery mode.

AC/Battery Priority:

Our inverter is designed AC priority by default. This means, when AC input is present, the battery will be charged first, and the inverter will transfer the input AC to power the load.

The AC Priority and Battery Priority switch is available upon request. When you choose battery priority, the inverter will inverting from battery despite the AC input.



Specification

	, co. Aprilant	e Sine W			1000	AD	AD	AD	
	Model	AP	AP	AP	AP	AP	AP	AP	
Inverter Output	C#	1000W	1500W	2000W	3000W	4000W	5000W	6000V	
	Continuous Output Power	1000W	1500W	2000W	3000W	4000W	5000W	6000V	
	Surge Rating (20S)	3000W	4500W	6000W	9000W	12000W	15000W	18000\	
	Capable of Starting Electric Motor	1HP	1.5HP	2HP	3HP	4HP	5HP	6HP	
	Output Waveform		Pure			ut (Bypass N	lode)		
	Nominal Efficiency	>88% (Peak)							
	Line Mode Efficiency	>95%							
	Power Factor	0.9-1.0							
	Nominal Output Voltage rms	100-110-120Vac / 220-230-240Vac							
	Output Voltage Regulation	±10% RMS							
	Output Frequency	50Hz ± 0.3Hz / 60Hz ± 0.3Hz							
	Short Circuit Protection	Yes, Current Limit Function (Fault after 1sec)							
	Typical transfer Time	10ms (Max)							
	THD	< 10%							
		12.0Vdc							
	Nominal Input Voltage	(*2 for 24Vdc, *4 for 48Vdc)							
	Minimum Start Voltage	10.0Vdc							
	Low Battery Alarm	10.5Vdc / 11.0Vdc							
DC Input	Low Battery Trip	10.0Vdc / 10.5Vdc							
DC Input	High Voltage Alarm & Fault	16.0Vdc							
	High DC Input Recovery	15.5Vdc							
	Low Battery voltage recover	13.0Vdc							
	Idle Consumption- Search Mode	< 25 W when Power Saver On							
	Search Wode	Wide: 90~135VAC (464~242VAC)							
	Input Voltage Range	Wide: 90~135VAC / 164~243VAC ;							
	Output Voltage	Narraw: 100~135VAC / 194~243VAC ; Depends on battery type							
	Charger Breaker Rating	10A	10A	10A	20A	20A	30A	30A	
	Max Charge Rate	IOA	2/240.000	2000000	135750000	100.5000	200000	JUN	
	Over Charge Protection	35A / 70-90A Max (Charger Current Control) 15.7V for 12Vdc (*2 for 24Vdc, *4 for 48Vdc)							
	Shutdown Charger curve (4 stage	10.1710/12700(210127700, 410170700)							
	constant current)	Battery types (*2 for 24Vdc, *4 for 48Vdc)							
Charger	4 Step Digital Controlled Progressive Charge								
onarger	Battery type		Fasi	Vdc		Float Vdc			
	Gel U.S.A	14				13.7			
	A.G.M 1	14.1			13.4				
	A.G.M 2	14.6			13.7				
	Sealed Lead Acid	14.4			13.6				
	Gel Euro	14.4				13.8			
	Open Lead Acid	14.8				13.3			
	Calcium			5.1			13.6		
	De-sulphation	15.5 for 4hrs							
	Remote Control			2	Yes. Optiona				

	AP Pure	Sine W	lave Inve	erter/Cha	ırger			
	Input Voltage Waveform	Sine wave (Grid or Generator)						
Bypass & Protection	Nominal Voltage	120Vac			230Vac			
	Low Voltage Trip	80V/90V±4%			184V/154V±4%			
	Low Voltage re engage	90V/100V±4%			194V/164V±4%			
	High Voltage Trip	140V±4%			253V±4%			
	High Voltage re engage	135V±4%			243V±4%			
	Max Input AC Voltage	150VAC			270VAC			
	Nominal Input Frequency	50Hz or 60Hz (Auto detect)						
	Low Freq Trip	47±0.3Hz for 50Hz, 57±0.3Hz for 60Hz						
	Low Freq re engage	48±0.3Hz for 50Hz, 58±0.3Hz for 60Hz						
	High Freq Trip	55±0.3Hz for 50Hz, 65±0.3Hz for 60Hz						
	High Freq re engage	54±0.3Hz for 50Hz, 64±0.3Hz for 60Hz						
	Output Short circuit protection	Circuit breaker						
	Bypass breaker rating	10A	15A	20A	30A	30A	40A	40A
	Transfer switch rating	30amp for UL & TUV			270VAC			
	Max bypass current	30amp 40amp						
Mechanical Specification	Mounting	Wall mount						
	Inverter Dimensions(L*W*H)	382*218*179mm		442*218*179mm		598*218*179mm		
	Inverter Weight	16KG	17KG	20KG	24KG	35KG	45KG	45KG
	Shipping Dimensions(L*W*H)	520*315*300mm		580*315*300mm		740*315*300mm		
	Shipping Weight	18KG	19KG	22KG	26KG	37KG	47KG	47KG
	Display	Status LEDs / Status LEDs+LCD						
	Standard Warranty	1 Year						