AVIV Series+SCC

Modified Sine Wave Solar Inverter with PWM Controller

Features :

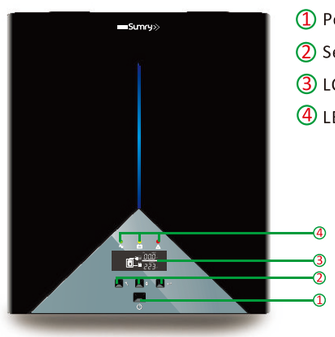
- Automatic line-to-battery switch over
- Built-in enhanced AC charger
- Built-in solar charger controller
- Configurable output source priority, charger source priority, charger current and so on
- High efficient DC-to-AC conversion with
- minimized energy loss
- Rack design & wall-mounted design for flexible installation
- Intelligent 3-stage charger control for efficient charging and preventing overcharge
- Auto restart upon AC recovery
- User-friendly LCD and LED indications with setting function
- Smart temperature compensation technology to extend battery life
- Multiple protections: low battery alarm, low battery shutdown, over charger protection, overload protection, over temperature protection, short circuit protection

Introduction

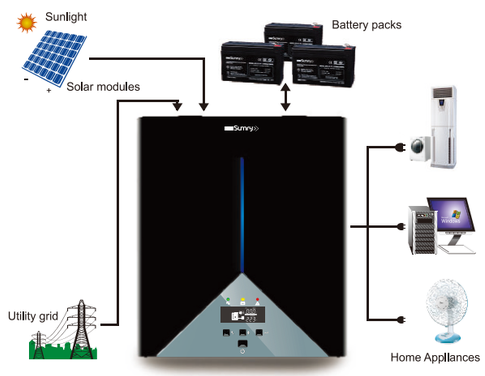
This is a DC-to-AC inverter with integrated solar battery charger, which can be used as a long run-time UPS (Uninterruptible Power Supply), an energysaving solution or an automotive inverter (hereinafter referred to as “inverter”).

Operation

Shown below are the controls, LCD and LED On the top panel of AVIV.



Solar System Connection



Personal power station

MODEL		AV-1018SCC	AV-1218SCC	AV-2018SCC	AV-2218SCC
CAPACITY	VA/W	1000VA/800W	1200VA/1000W	2000VA/1600W	2200VA/1800W
Normal Battery Voltage		$12V_{DC}$		$24V_{DC}$	
LINE MODE					
INPUT	Normal Voltage	$230V_{AC}$			
	Voltage Range	170–280VAC (Narrow Range)			
		90–280VAC(Wide Range)			
	Normal Frequency	50Hz or 60Hz			
OUTPUT	Voltage	$230V_{AC}$			
	Frequency	Following the Utility			
	Output Waveform	Following the Utility			
Efficiency		>95%(full R load, battery full charged)			
Transfer Time		15ms Typical,40ms Max.			
Back Up Mode					
OUTPUT	Voltage	230VAC(+10% /–18%)			
	Frequency	50Hz or 60Hz (Auto detection)			
	Output Waveform	Modified Sine–wave			
Efficiency		>80%			
Overload Protection		1min @>110 %, 20s @>120%, 0s @>150%			
Protection		Discharge, over–charged, over–loading, over–temperature, short–circuit protection			
Battery Charger (powered By Ac)					
Charging Algorithm		3–step charging			
Ac Charging Mode		0A/5A/10A/15A/20A selectable		0A/5A/10A/15A selectable	
Floating Charging Voltage		13.7V		27.4V	
Overcharging Voltage		16V		32V	
Solar Battery Charger					
Max. Pv Panel Array Power		900W	1050W	1500W	1750W
Max Pv Mode Power Rating To Support Load		500W	600W	1000W	1200W
Max Charging Current		50Amp	60Amp	50Amp	60Amp
Normal Battery Voltage		12V		24V	
Optimal Work Voltage Range		16V~18V		32V~36V	
Max. Pv Input Voltage		55V			
Max. Pv Input Current		65 Amp			
General	Dimension (DxWxH)	280mm(D)*250mm(W)*95mm(H)			
Physical	Net Weight (kg)	2.16	2.46	2.38	2.38
	Operating Environment	0– 50℃, 5%–90 % relative humidity (non–condensing)			
Environ Ment	Storage Environment	–15℃ to 55℃, 5% to 95% humidity (non–condensing)			
	Noise Level	Less than 50dB			