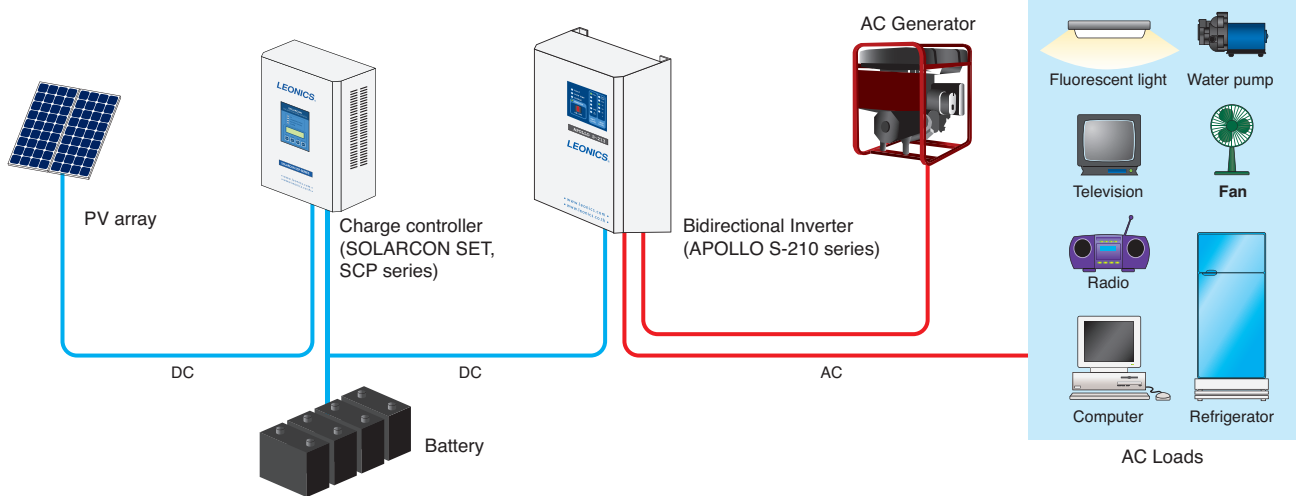


APOLLO S-210

Single Phase Bidirectional Inverter



- High efficiency bidirectional inverter with built-in output transformer
- High speed automatic transfer switch (4 msec) included
- Stable output voltage and frequency
- Full protection for overload, short circuit and over temperature
- Automatic low battery shutdown to protect battery
- Reverse polarity protection
- ISO 9001 and ISO 14001 certified factory
- Cooling fans with automatic speed controller
- 3-stages charging to provide quick and safe charging for battery
- LCD display and data logging (option)
- Battery temperature compensation (option)
- PC-communication with monitoring software (option)
- 2 years warranty (option for 3 and 5 years)
- Wall mounted, 19 inch rack mount and tower case



APOLLO S-210 series is stand-alone bidirectional inverter which can operate in inverter mode and rectifier charge mode. It provides highest reliable for stand-alone solar electrification system with capability to receive AC supply from generator. The inverter automatically detects availability of AC power supply from the generator and change operation to rectifier charge mode in order to charge battery and supply AC power from generator to AC appliances.

MODEL		S-210A	S-211A	S-211B	S-212B	S-213B S-213B/RM	S-215B S-215B/RM	S-216B S-216B/RM	S-211C S-211C/RM	S-213C S-213C/RM	S-215C S-215C/RM	S-216C S-216C/RM	S-217C	S-218C S-218C/RM
INPUT														
Inverter mode	Nominal voltage	12 Vdc		24 Vdc						48 Vdc				
	Voltage range	10.5 - 14.5 Vdc		21 - 29 Vdc						40 - 58 Vdc				
Charge mode	Nominal voltage	220 Vac												
	Voltage range	176 - 265 Vac												
	Frequency	50 / 60 Hz ± 3%												
AC Generator	Recommended power rating	1.25 kVA	1.25 kVA	2 kVA	3 kVA	4 kVA	6 kVA	7.5 kVA	2 kVA	4 kVA	6 kVA	7.5 kVA	11 kVA	14 kVA
OUTPUT														
Inverter mode	Power continuous (Pf.=1)	150 VA / 150W	300 VA / 300 W	500 VA / 500 W	800 VA / 800 W	1 kVA / 1 kW	1.5 kVA / 1.5 kW	2 kVA / 2 kW	500 VA / 500 W	1 kVA / 1 kW	1.5 kVA / 1.5 kW	2 kVA / 2 kW	2.7 kVA / 2.7 kW	3.5 kVA / 3.5 kW
	Max. surge power	200%												
	Voltage	220 Vac ± 1%												
	Frequency	50 / 60 Hz ± 0.1% (crystal control)												
	Wave form	Pure sine wave												
	Total harmonic distortion	< 3%												
Charge mode	Nominal voltage	12 Vdc		24 Vdc						48 Vdc				
	Charging current	7 A	14 A	12 A	20 A	24 A	30 A	40 A	6 A	12 A	18 A	24 A	32 A	38 A
SYSTEM														
Max. efficiency		> 80%		> 82%			> 85%				> 90%			
Protection		Over current, overload, over temperature, short circuit, over DC voltage, under voltage												
INDICATOR														
LED		Status, Battery Level, Overload, Fault		Load Level, Overload, Battery Level, Low Battery, Fault, Over Temperature, Charger Status, Inverter Status										
LCD	With data logging	Option (Inverter (voltage, current, frequency), Battery (voltage, current), Load (voltage, current))												
Audible alarm	Buzzer	Low battery, over load, short circuit, over temperature												
ENVIRONMENT														
Temperature		0 - 45°C												
Relative humidity		0 - 95 % (non - condensing)												
CONFORMANCE														
Design regulation	Safety regulation	AS 3100												
PHYSICAL														
Dimension W x H x D (cm)	Wall mount	18.2 x 36 x 12.1		26 x 36 x 16			29 x 51.5 x 22.5		26 x 36 x 16		29 x 51.5 x 22.5		58 x 35.4 x 21.8	
	Rack mount	-				48.2 x 22 x 50		48.2 x 14 x 50		48.2 x 22 x 50		-	49.3x31x47.5	
Weight (Approx. in kg)	Wall mount	8	8.5	18.5	20.5	20.5	27	27	18.5	20.5	26	27	40.5	40.5
	Rack mount	-	-	-	-	24	28	29	23	25	28	29	-	40.5