



**electrahertz**  
electrical suppliers (Pty) Ltd

## LOW FREQUENCY, PURE SINE WAVE OFF GRID SOLAR INVERTER

### FEATURES

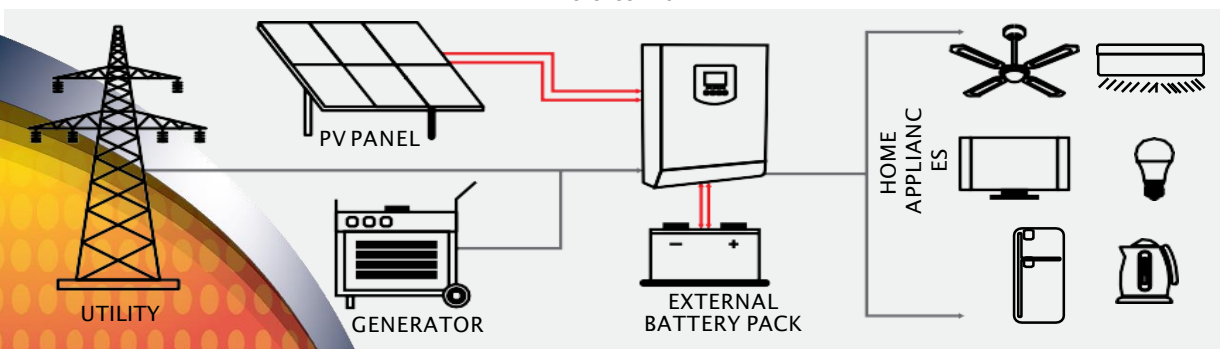


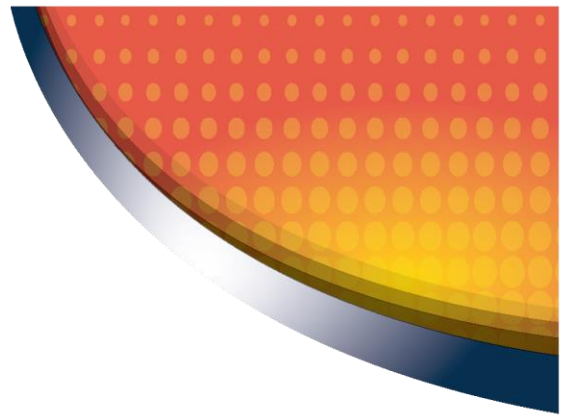
- Rated power 12kW.
- Nominal Battery System Voltage 48VDC
- Pure sine wave output
- Smart LCD setting (Working models, Charge Current Charge Voltage etc.)
- Built-in MPPT solar charge controller 120A (2 x 60A Controllers)
- MPPT efficiency max 98%
- Capable of starting a 6HP Electric Motor
- Powerful charge rate up to 120Amp
- Built-in pure copper UI transformer
- DC start & Automatic Self-Diagnostic Function
- RS485 monitoring function with free CD
- Supporting AGS, BTS port
- Compatible with generator
- 50/60Hz automatic sensing



SYSV35-12KW

SYSV35-120W





INVERTER OUTPUT	
Rated Power	12.0kw
Surge Power	36.0kw
Rated Output Voltage	220V/230V/240VAC )+/-10%RMS)
Output Frequency	50Hz/60Hz +/- 0.3Hz
Inverter Efficiency (Peak)	>88%
Line Mode Efficiency	>95%
Power Factor	0.8
Typical Transfer Time	10ms (max)
AC INPUT	
Voltage	230VAC
Selectable Voltage Range	154~272VAC For PC
Frequency Range	50Hz / 60Hz (Auto sensing)
BATTERY	
Minimum Start Voltage	40.0VDC / 42.0VDC
Low Battery Alarm	42.0VDC +/-0.6V
Low Battery Cut-off	40.0VDC +/-0.6V
High Voltage Alarm	64.0VDC +/-0.6V
High Battery Voltage Recover	62.0VDC +/-0.6V
Idle Consumption Search Mode	<25W when power saver on
AC CHARGE	
Output Voltage	Depends on battery type
Charger AC Input Breaker Rating	63A
Overcharge Protection S.D.	62.8VDC for 48VDC mode
Max. Charge Current	100A

SOLAR CHARGER	
Max. PV Charge Current	120A
DC Voltage	48V
Max. PV Array Power	6400w for 120A
MPPT Range @ Operating Voltage	64~147VDC
Max. PV Open Circuit	147VDC
Max. Efficiency	>98%
Standby Power Consumption	<2W
MECHANICAL SPECIFICATIONS	
Mounting	Wall Mount
Dimension (W*H*D)	670*410*215mm
Nett Weight (kg)	75.75+2.5
Shipping Dimensions (W*H*D)	884*618*443mm
Shipping Weight (Solar CHG) kg	95.5+2.5
OTHER	
Operating Temperature	0°C to 40°C
Storage Temperature	-15°C to 60°C
Audible Noise	60dB Max
Display	LED+LCD

#### APPROXIMATE BACK-UP TIMETABLE

POWR RATE (w)	BACK UP TIME (H) @4*100Ah
12 000	0.11392

BACK UP TIME (H) @4*200Ah	BACK UP TIME (H) @8*200Ah
0.3417	0.8544



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