



ELECTRONIC POWER GENERATOR

INVERTER



FEATURES

- Microcontroller based
- Automatic change over
- Over load / Short circuit protection
- Reverse battery polarity protection
- Low battery cut-off to prevent deep discharge of battery
- Controlled output voltage in inverter mode
- High efficiency MOSFET based inverter
- Heavy duty charger for extended battery life



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Electrogard Electronic Power Generator offers freedom from frequent power failures that leave you in complete darkness. It finds application in home lighting (Tube Lights, Fans, Coolers & TV) without any noise, smoke, and oily and greasy environment. Also it saves you from the trouble of cranking conventional engine driven generators.

The system operates from a 12V/24V Battery (180AH) that takes over automatically in case of power failure and provides 220V AC supply for your application. It has a built in heavy duty, Constant Voltage, Constant Current Battery Charger to charge the battery when power resumes.



SPECIFICATIONS

MODEL	EPG-700	EPG-1000	EPG-500 Dx	EPG-1400 Dx
Technology	Microcontroller Based Quasi square wave	Microcontroller Based Quasi square wave	Microcontroller (DSP) Based Sine wave	Microcontroller (DSP) Based Sine wave
Mains Voltage (for proper battery charging)	150 - 280 VAC, 50 Hz	150 - 280 VAC, 50 Hz	120 - 280 VAC, 50 Hz	120 - 280 VAC, 50 Hz
Battery Voltage	12 VDC	24 VDC	12 VDC	24 VDC
MAINS MODE				
Output Voltage	Same as Input Voltage	Same as Input Voltage	Same as Input Voltage	Same as Input Voltage
Low Voltage Change-over	Not available	Not available	120 VAC	120 VAC
High Voltage Change-over	Not available	Not available	280 VAC	280 VAC
INVERTER MODE				
Output Voltage	205 - 235 VAC, 50 Hz \pm 2%	205 - 235 VAC, 50 Hz \pm 2%	220 VAC \pm 1%, 50 Hz \pm 0.5%	220 VAC \pm 1%, 50 Hz \pm 0.5%
Output Power	700 VA / 500 Watt	1000 VA / 700 Watt	500 VA / 350 Watt	1400 VA / 1000 Watt
Output Waveform (Inverter Mode)	Modified Square Wave (PWM)	Modified Square Wave (PWM)	Sine Wave	Sine Wave
Backup Time	3.5 hours on full load Extendable on partial load	3.5 hours on full load Extendable on partial load	3.5 hours on full load Extendable on partial load	3.5 hours on full load Extendable on partial load
Over Load Trip	Set at 110% of rated load Auto-resettable	Set at 110% of rated load Auto-resettable	Set at 110% of rated load Auto-resettable, audio alarm	Set at 110% of rated load Auto-resettable, audio alarm
Low Battery Cut-off	Set at 9.5 V	Set at 19.0 V	Set at 9.75 V with audio alarm	Set at 19.5 V with audio alarm
Battery Charger Boost	SCR Based, Constant	SCR Based, Constant	SMPS Based, Float-cum-Boost	SMPS Based, Float-cum-
	Voltage Constant Current 7 Amp. / 13.6 VDC	Voltage Constant Current 7 Amp. / 27.2 VDC	Charger, 7A / 10A / 12.5A/15A (Internal Selection)	Charger, 10A / 15A / 20A / 25A (Internal Selection)
Inverter Efficiency	>75% at full load	>75% at full load	>75% at full load	>75% at full load
Battery	1 x 12V, 180AH	2 x 12V, 180AH	1 x 12V, 180AH	2 x 12V, 180AH

SAGAR ELECTRICALS

(AN ISO : 9001 CERTIFIED COMPANY)

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