ULTIMATE POWER

PEC

Prairie Equipment Company, LLC

Warehouse Distributor Ultimate Power Inverters, Batteries, & Support Components

Phone 952-949-2430
Email pec.sales@outlook.com



SD-CG Series
2000, 2500, 3000 and 4000 Watts

DC to AC Power Inverter

Pure Sine Wave

Combined Inverter & Charger

Your Choice when Performance Matters

Better Built, Better Solutions and Better for the **Environment**

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SD-CG SERIES COMBINED INVERTER & CHARGER SPECIFICATIONS

INVERTER SPECIFICATIONS	UP12/2000SD-CG	UP12/2500SD-CG	UP12/3000SD-CG	UP12/4000SD*
Continuous Output Power (Watts) (Ac Amps)	2000/16.6	2500/20.8	3000/25	4000/33.3
Maximum Output Power (Watts) (Ac Amps)	2950/24.5	3125/26	3900/32.5	4700/39.1
Surge Rating (Max.) (Watts) (Ac Amps)	6000/50	7500/62.5	9000/75	12000/100
Capable of Starting Electric Motor	1.5HP	2.5HP	3HP	3HP
Efficiency	90% (Peak)			
Output Voltage RMS/Output Voltage Regulation	120Vac ± 3%			
Output Frequency	60Hz ± 0.02%			
Output Waveform	Pure Sine Wave, less than 5% THD typical			
Input Voltage Regulation (Volts DC)	10 to 16			
Input Current (Amps DC) (at 12.5Vdc)	160	200	240	320
Low Battery Alarm (Volts DC)	Selectable 12.4 or 11.9			
Low Battery Shutdown (Volts DC)	Selectable 11.9 or 11.4			
Operating Temperature	-4°F to 122°F (-20°C to 50°C)			
Dimensions (LxWxH) (Inches)	15.6 X 17.64 X 7.47			
Weight (lbs.)	57	62	65	74
Warranty w/Advance Replacement	5/2 Years			
Optional Remote Panel	LCD Remote Panel			

CHARGER SPECIFICATIONS	UP12/2000SD-CG	UP12/2500SD-CG	UP12/3000SD-CG	UP12/4000SD*
4 Stage Battery Charger	4 Stage (CC, CV, Float & Monitor)			
Automatic AC Transfer Relay	30 Amps (Transfer Time 10ms ± 4ms)			
Input Voltage Range (Volts AC)	Selectable 100 - 135Vac or 90 - 135Vac			
Output Voltage (Volts DC)	Dependent on Battery Type Selected			
Charger Current (Amps DC)	Up to 80	Up to 100	Up to 120	Up to 110
Battery Voltage for Start-up (Volts DC)	3 - 15.7			
Over Charge Protection Shutdown (Volts DC)	16			

Charger Curves (4 stage constant current) battery types
4 step digital controlled progressive charge

Battery Types	Charger Curves	
Gel U.S.A.	14.0 (Fast V)	13.7 (Float V)
A.G.M.1	14.1 (Fast V)	13.4 (Float V)
Lithium Ion (LiFePO4)	14.6 (Fast V)	13.7 (Float V)
Sealed Lead Acid	14.4 (Fast V)	13.6 (Float V)
Gel Euro	14.4 (Fast V)	13.8 (Float V)
Open Lead Acid	14.8 (Fast V)	13.3 (Float V)
Calcium	15.1 (Fast V)	13.6 (Float V)
De-Sulphation	15.5 (Fast V) for 4Hrs	

Product Features

Unit Protection

- Automatic Overload/ Short Circuit Protection
- Automatic High Battery Alarm and Shutdown at 16Vdc
- Automatic Over-Temperature Alarm and Shutdown
- Thermally Controlled Cooling Fan

Battery Protection

- Automatic Low Battery Alarm selectable at 12.4 or 11.9Vdc
- Automatic Low Battery Shutdown selectable at 11.9 or 11.4Vdc
- Over Temperature
- High Battery or Low Battery

Other Features

- Duplex GFCI Outlet
- AC input/output Connections
- Remote 12Vdc Switch Connection
- Optional LCD Remote Panel
- Shore Power Nuisance Trip Protection
- Auto Generator Start Function
- Ready Mode
- Adjustable Low Battery Trip Voltage
- AC/Battery Priority
- Adjustable DC current output (Battery Charger)

*UP12/4000SD is not ETL-listed

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