

# ULTIMATE POWER

Manufacturer of Inverters, Battery Management Devices & Lithium Batteries



## SD Series

1500, 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**

## SD SERIES COMBINED INVERTER & CHARGER SPECIFICATIONS

INVERTER SPECIFICATIONS	UP12/1500SD	UP12/2000SD	UP12/2500SD	UP12/3000SD	UP12/4000SD
Continuous Output Power (Watts) (Ac Amps)	1500/12.5	2000/16.6	2500/20.8	3000/25	4000/33.3
Maximum Output Power (Watts) (Ac Amps)	1950/16.2	2950/24.5	3075/25.6	3900/32.5	4700/39.1
Surge Rating (Max.) (Watts) (Ac Amps)	4500/37.5	6000/50	7500/62.5	9000/75	12000/100
Capable of Starting Electric Motor	1/2HP	1HP	1.5HP	2HP	3HP
Efficiency	90% (Peak)		90% (Peak)		
Output Voltage RMS/Output Voltage Regulation	120Vac ± 5%				
Output Frequency	60Hz ± 0.03%				
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)	120	160	200	240	320
Low Battery Alarm (Volts DC)	Selectable 12.4 or 11.5				
Low Battery Shutdown (Volts DC)	Selectable 11.9 or 11				
Operating Temperature	-4°F to 122°F (-20°C to 50°C)				
Dimensions (LxWxH) (Inches)	16.1 x 13.4 x 7.1		16.25 x 15.75 x 7.4		
Weight (lbs.)	51	55	62	62	69
Warranty w/Advance Replacement	5/2 Years				
Optional Remote Panel	LCD Remote Panel				
CHARGER SPECIFICATIONS	UP12/1500SD	UP12/2000SD	UP12/2500SD	UP12/3000SD	UP12/4000SD
4 Stage Battery Charger	4 Stage (Bulk, Accept, Float and Desulfation)				
Automatic 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 35	Up to 50	Up to 80	Up to 100	Up to 110
Battery Voltage for Start-up (Volts DC)	0 - 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 11.5Vdc
- Automatic Low Battery Shutdown selectable at 11.9 or 11Vdc
- 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)
- Case Design: Square
- Owner's Manual
- Warranty: 5 Years/2 Years Advance Replacement