



## SOL FREEDOM

### Estimated Running Time

1800M-60B	1800P-80W	1800P-80W+
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#### Office Applications:

Device	Power (W)	1800M-60B (hrs)	1800P-80W (hrs)	1800P-80W+ (hrs)
Cell phone	5W	95 hrs	95 hrs	253 hrs
Ink Jet Printer	8W	60 hrs	60 hrs	160 hrs
17" LCD Monitor	35W	15.5 hrs	15.5 hrs	41 hrs
Table Lamp (40W)	40W	12 hrs	12 hrs	32 hrs
Table Lamp (60W)	60W	8 hrs	8 hrs	21 hrs
Laptop	65W	7.5 hrs	7.5 hrs	20 hrs

#### Emergency Power Application:

Device	Power (W)	1800M-60B (hrs)	1800P-80W (hrs)	1800P-80W+ (hrs)
Cordless Phone	5W	90 hrs	90 hrs	240 hrs
Clock Radio	8W	55 hrs	55 hrs	147 hrs
20" LCD TV	40W	13 hrs	13 hrs	35 hrs

#### Home Backup Power Applications:

Device	Power (W)	1800M-60B (hrs)	1800P-80W (hrs)	1800P-80W+ (hrs)
Home Alarm System	5W	90 hrs	90 hrs	240 hrs
0.25 m <sup>3</sup> Freezer	80W	4.5 hrs	4.5 hrs	12 hrs
0.5 m <sup>3</sup> Fridge	120W	3.5 hrs	3.5 hrs	9 hrs
Sump Pump (1/4 H/P)	300W	65 mins	65 mins	3 hrs
1/2" Drill	700W	29 mins	29 mins	77
Microwave	1000W	20 mins	20 mins	53
Coffee Maker	1200W	10 mins	10 mins	27

#### How long will it last:

Device	1800M-60B (hrs)	1800P-80W (hrs)	1800P-80W+ (hrs)
Laptop, Inkjet Printer, Modem & Cordless Phone	>10hrs	>10 hrs	>27hrs
Cordless Phone, 13"TV, Radio & Table Lamp	>3-3hrs	>3-3hrs	>9 hrs
18.8 m <sup>3</sup> Fridge & Alarm System	>3hrs	>3 hrs	>8 hrs

ETL, CE, CCC Regulation approval under process  
230VAC model available



# SOLFREEDOM

Sol Freedom 1800M-60B  
 Sol Freedom 1800P-80W  
 Sol Freedom 1800P-80W+

## SPECIFICATIONS

1800M-60B	1800P-80W	1800P-80W+
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### Inverter:

Continuous Power	1800W
Surge Power	3600W
Output Voltage	220 V <sub>AC</sub> *
Output Waveform	Modified Sinewave True Sinewave True Sinewave
AC receptacles	6
Peak Efficiency	90%
No Load battery draw	<3W
Transfer Time	<30ms
AC Input Protection	15A

### AC Charger:

Charger Current	5A
Charging Stages	Three Stages (Bulk, Absorption, Float)

### Solar Charger (Embedded)

Input Current	8A DC Max
Charging Stages	Three Stages (Bulk, Absorption, Float)
Maximum Input Voltage	26V <sub>DC</sub>

### USB Output:

Type	5V, 1A
Qty	2

### Battery:

Type	Deep Cycle Lead Acid		
Capacity	60Ah	80Ah	80Ah

### Environmental:

Operating Temperature	0 to 40°C
Storage Temperature	-20 to 60°C

### Solar Panel:

Peak Power	2x50W
Voltage	20V
Open Circuit Voltage	24V
Current	2x2.5A

### Wind Turbine:

Rated Power	N/A	200W	200W
Peak Power	N/A	200W	200W
Voltage	N/A	12V <sub>DC</sub>	12V <sub>DC</sub>
Current	N/A	18A	18A

Specification subject to Change without notice

### Estimated Recharging time:

Using built-in Charger	14.5 hrs	14.5 hrs	19 hrs
Using 100W Solar Panel	10.4 hrs	10.4 hrs	13.8 hrs
Using Wind Turbine	N/A	6.2 hrs	8.3 hrs

### Physical:

Dimension	55.38 X 30.65 X 24.3cm
Weight	34.8kg