

Sumpro 1800 Backup Power System

1800 watts of emergency power



Sumpro 1800 Overview

The Alta Power Sumpro is an emergency power system that can supply up to 1800 watts of household electricity – enough to run almost any electronic product or appliance you might connect to your wall outlet. The Sumpro 1800 stores household electricity in an internal battery bank and provides instantaneous power to your critical electrical appliances when utility power fails. The Sumpro is a clean quiet, smart, alternative to a generator, produces no emissions and is safe to operate indoors.

How It Works

Simply plug your electrical appliance into the Sumpro 1800 and plug the Sumpro 1800 into a standard wall outlet. Once appliances are connected to the Sumpro, the Sumpro will continue to use your utility power until a power failure is detected. Once a power failure is detected, the Sumpro will instantaneously begin to supply standard household electricity to any connected appliances. Once utility power is restored, the Sumpro will automatically switch your appliance back to utility power and immediately begin to recharge its internal batteries in anticipation of the next power failure.

What's Included

Includes everything you will need to instantly provide backup power out of the box.

- (1) Power Head; 1800w modified sine wave inverter with 40 amp charger
- (1) 16 Gauge - Dual Chassis Battery Enclosure and cabling
- (2) 120 amp-hour AGM battery (240 aH Total Battery Capacity)*

* expandable battery capacity, 480ah max

Applications

The Sumpro is designed to operate a range of appliances such as a standard size refrigerator and sump pump, hot water furnace, and office equipment such as a computer, monitor and fax machine. Includes everything you will need to instantly provide backup power out of the box.

Sumpro 1800 Features

- Delivers up to 1800 watts of 120vAC electrical power
- Delivers up to 3600 watts of surge capacity
- Automatic Transfer to/from backup power
- Automatic Charger and Battery Monitoring System
- Expandable battery capacity for extended run times *
- No emissions, no exhaust, no moving parts
- Silent Operation while in operation



Example Applications

- Sump Pump up to 1/2 HP
- Ejector Pump
- Hot Water Furnace
- Refrigerator
- Garage Door Opener
- Electric Gates
- Security Cameras and Alarms
- Pellet Stove
- Small Office Equipment
- Television

The appliances listed above are recommended applications only. Use of the Sumpro 1800 system is not limited to use of the appliances



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Additional product info
www.altapower.com

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Technical Specifications

AC Power Specifications	
Max AC Output Continuous	1800 W
Max AC Output Surge	3600 W
AC Output Voltage (Nominal)	120 Volts
AC Output Frequency	60Hz +/-1 Hz
Transfer Switch Rating	15 Amps/12 Milliseconds
AC Output Waveform	Modified Sine Wave
Inverter no-load current	< 0.35 amps <i>(battery drain with no load on inverter)</i>
Protection Specifications	
Surge Suppression	Built-In
Overload Protection	Built-in; 15 amp circuit breaker protection
Operating Temperature	
Operating Temperature	32°F - 104°F (0°C - 40°C)
Storage Temperature	32°F - 86°F (0°C - 30°C)
Approvals & Warranty	
Regulatory Approvals	UL Listed to UL 1778 2nd Edition and CSA C22.2 no. 107.1-01 Standby UPS Standards FCC Class
Warranty	1 year manufacture warranty

Battery Specifications	
Internal battery capacity	210 amp-hours
Internal battery type	Sealed lead acid, AGM
Internal battery voltage	24 vDC (nominal)
Inverter low battery alarm	18.0 volts (nominal)
Inverter low battery shutdown	17.8 volts (nominal)
Charging Specifications	
Internal AC Charger	40 Amps
Peak charging voltage	29 V (nominal)
Float charge voltage	None, Threshold Controlled
Recharge Time from AC Outlet	6 to 8 Hrs Maximum (Depends on battery depth of discharge)
Physical Specifications	
Dimensions (HxWxD) with battery box	12 x 16.5 x 23"
Power head Dimensions	12 x 16.5 x 8 3/8"
Battery Box Dimensions	12 x 16.5 x 14 5/8"
Weight (without batteries)	95 lbs
Weight (with batteries)	245 lb

Note: Recharging time is calculated based on operating the power system in environmental temperatures of 77 F / 25 C

Sump Pump Operational Runtimes

Weather Conditions	Duty Cycle	Duty Cycle Description	Operational Run Time (hrs) by pump output (hp)		
			1/4 HP Pump	1/3 HP Pump	1/2 HP Pump
Light Seepage	3.30%	20 seconds pumping 9.5 Minutes rest	112 hrs	84 hrs	56 hrs
Light Rain	3.90%	18 seconds pumping 7.3 Minutes rest	85 hrs	64 hrs	42.5 hrs
Moderate Rain	7.70%	17 seconds pumping 3.4 Minutes rest	42 hrs	31.5 hrs	21 hrs
Heavy Rain	10.00%	17 seconds pumping 2.3 Minutes rest	28 hrs	21 hrs	14 hrs
Water Main Break	19.00%	16 seconds pumping 1.1 Minutes rest	14.5 hrs	10.5 hrs	7 hrs
Water Main Break	100%	Continuous Operation	2.45 hrs	1.8 hrs	1.3 hrs

Additional Application Runtimes		
Office Applications	Watts ¹	Runtime Hours ²
Laptop	25	77 h
Inkjet Printer	8	231 h
Cell Phone	5	315 h
Wireless Modem/Router	6	280 h
Table Lamp	40	48 h
Desktop Computer	67	26 h
20" LCD Monitor	52	33 h
Emergency Power Applications	Watts ¹	Runtime ²
Cordless Phone	5	315 h
Clock Radio	8	231 h
13" CRT TV	50	35 h
20" LCD TV	75	21 h
Home Backup Applications	Watts ¹	Runtime ²
18 cu. ft. fridge	120	15 h
8.8 cu. ft. freezer	80	21 h
Home alarm system	5	90 h

*Specifications subject to change without

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How Long Will it Provide Power?	Runtime Hours ²
Laptop, inkjet printer, modem/router and cordless phone	Up to 42 h
Desktop Computer, 20" LCD Monitor, Inkjet Printer, modem/router, cordless phone	Up to 14 h
Cordless phone, 20" TV, radio and table lamp	Up to 14 h

¹ Average power consumption as measured on loads tested under regular operating conditions. Rated Power may differ from average power consumption.

² Runtime as measured on tested loads.



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