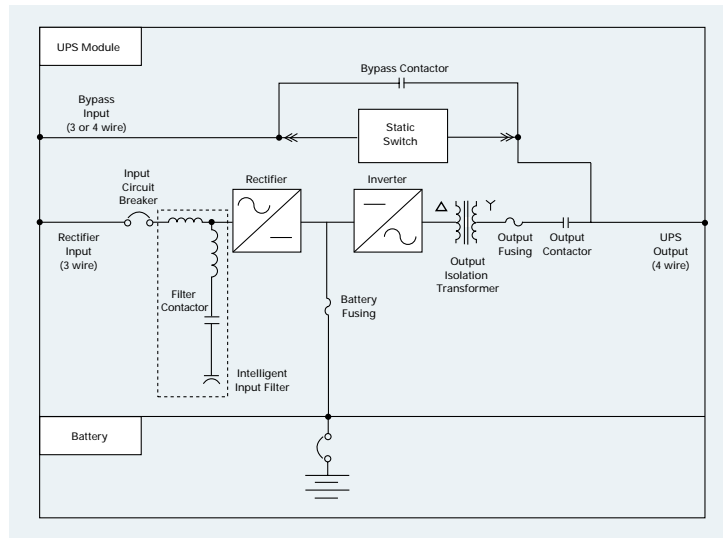


# Powerware® Plus 500 Online Uninterruptible Power System

MODEL 400	400kVA / 320kW
MODEL 500	500kVA / 400kW



## ONE LINE DIAGRAM



- Continuous online protection
- Superior system reliability
- World class quality
- Flexible network communications
- DC Expert™ Battery Management System
- Powerware HotSync™ Redundant and Capacity Capability

**Environmental Specifications**

Ambient temperature: 0°C to +40°C  
 Storage: -20°C to +70°C  
 Relative humidity: 5-95% non-condensing  
 Altitude: 1500 meters (5000ft.) at 40°C ambient temperature without load derating  
 Audible noise: Less than 72 typically dBA at 1 meter; in accordance with ISO 7779  
 Electrostatic discharge: Withstands 25kV without damage or disturbance to the load; exceeds requirements of IEC 801-2  
 EMC: Meets FCC Class A, Subpart J of Part 15 and EN 50091-2 (CISPR 22, Class A)

**Input Specifications**

Voltage range: (See chart on other side)  
 Frequency range: (60 Hz) 57-63 Hz;  
 Surge protection: Meets ANSI C62.41, Category A & B, EN 50091-2, and EN 50082-2  
 Power factor: 0.95 typical at full load with input filter  
 Input current distortion less than 10% with input filter

**Output Specifications**

Voltage THD: Less than 5% (100% non-linear load with 3:1 crest factor); less than 3% (100% linear load)  
 Voltage regulation: Better than ±1%  
 Transient response: Less than 5% for 100% load step; full recovery within 1 cycle  
 Frequency: (free run) ±0.005 Hz  
 Frequency sync range: ±0.5 Hz  
 Frequency slew rate: 1 Hz/second maximum  
 Voltage adjustment range (operator): ±5%

**Battery Specifications**

Matching cabinets – or remote option available  
 Battery type: Sealed, valve-regulated lead acid  
 Recharge time: 10 to 12 times the discharge time to 95%  
 Other battery options: Wet cell and nickel-cadmium batteries; open racks available

*For battery run times and configurations, refer to Bulletin BAT01FXA.*

**Safety**

UL1778 Listed  
 CUL CAN/CSA C22.2 NO.107.1-M91 Listed  
 EN 50091-1  
 All cabinets provide seismic mounting features  
 Selectable DC ground fault detection capability

Specifications subject to change without notice.

Powerware Plus 500 Performance Characteristics			
		Model 500	Model 400
		500kVA/400kW	400kVA/320kW
Input voltage	Volts	480	480
Output voltage	Volts	480	480
Input voltage range			
Minimum	Volts	408	408
Maximum	Volts	528	528
Input / output frequency	Hz	60	60
AC input (with input filter)			
Nominal amps	Amps	556	445
Maximum amps ❶	Amps	640	560
AC input (without input filter)			
Nominal amps	Amps	654	523
Maximum amps ❶	Amps	800	640
Bypass input			
Nominal amps	Amps	600	480
AC output			
Nominal amps	Amps	600	480
10 minutes max.	Amps	750	600
DC link			
Nominal DC voltage	Volts	480	480
Float voltage	Volts	540	540
End of discharge ❷	Volts	401	401
Maximum amps ❷	Amps	1000	800
Physical attributes (w/o batt.)			
Installed weight	Lbs	6100	6100
Installed width	Inches	74	74
System efficiencies			
@ 100% load	%	92	92
@ 75% load	%	92	92
@ 50% load	%	91	91
Full load heat dissipation			
BTU/Hr. (x1000)		119.5	95.6
KCal/Hr. (x1000)		30.2	24.1
Inverter efficiency (full load)	%	92.5	92.5



❶ Maximum amps equals full load current plus battery recharge current.

❷ End on Discharge based on 1.67 v/cell. Maximum Amps based on 1.8 v/cell.

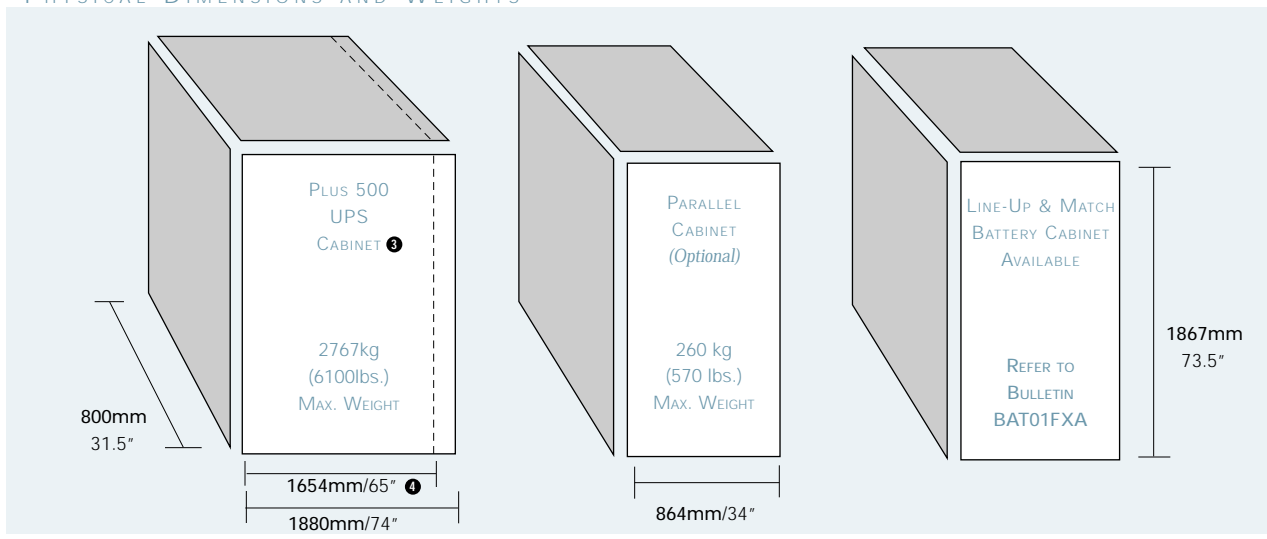
❸ All accessories feature plug and play capability.

❹ Removable wireway section reduces width by 9" to aid installation.

Shipping pallet and packaging adds 50 to 300 lbs. per shipping unit.

Specifications subject to change without notice.

### PHYSICAL DIMENSIONS AND WEIGHTS



All previously mentioned corporate names and brands are registered as trademarks by their respective companies.

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