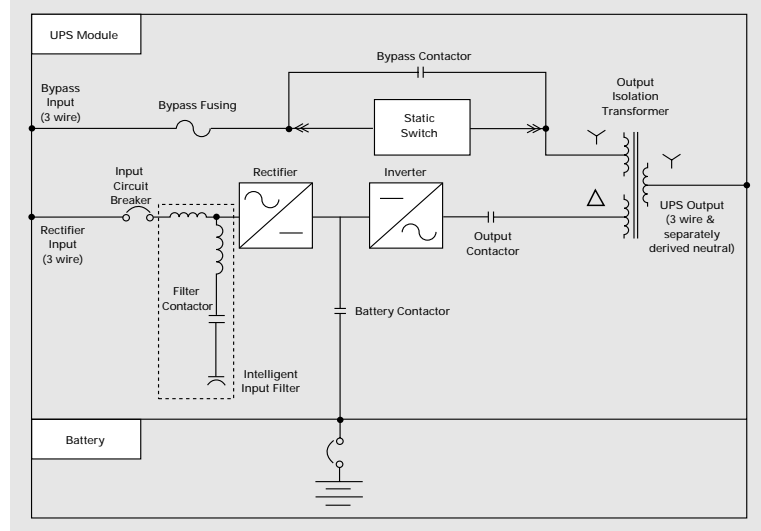


Powerware® Plus 80 Online Uninterruptible Power System

MODEL 50	50kVA / 40kW
MODEL 65	65kVA / 52kW
MODEL 80	80kVA / 64kW



ONE LINE DIAGRAM



- Continuous online protection
- Superior system reliability
- World class quality
- Flexible network communications

Environmental Specifications	<p>Ambient temperature: 0°C to +40°C</p> <p>Storage: -20°C to +70°C</p> <p>Relative humidity: 5-95% non-condensing</p> <p>Altitude: 1500 meters (5000ft.) at 40°C ambient temperature without load derating</p> <p>Audible noise: Less than 65 dBA at 1 meter; in accordance with ISO 7779</p> <p>Electrostatic discharge: Withstands 25kV without damage or disturbance to the load; exceeds requirements of IEC 801-2</p> <p>EMC: Meets FCC Class A, Subpart J of Part 15 and EN 50091-2 (CISPR 22, Class A)</p>
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Input Specifications	<p>Voltage range: (See chart on other side)</p> <p>Frequency range: (60 Hz) 57-63 Hz; (50 Hz) 47-53 Hz</p> <p>Surge protection: Meets ANSI C62.41, Category A & B, EN 50091-2 and EN 50082-2</p> <p>Power factor: 0.95 typical at full load with input filter</p> <p>Input current distortion less than 10% with input filter</p>
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Output Specifications	<p>Voltage THD: Less than 5% (100% non-linear load with 3:1 crest factor); less than 3% (100% linear load)</p> <p>Voltage regulation: Better than ±1%</p> <p>Transient response: Less than 5% for 100% load step; full recovery within 1 cycle</p> <p>Frequency: (free run) ±0.005 Hz</p> <p>Frequency sync range: ±0.5 Hz</p> <p>Frequency slew rate: 1 Hz/second maximum</p> <p>Voltage adjustment range (operator): ±5%</p>
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Battery Specifications	<p>Matching cabinets – Line-up or remote</p> <p>Battery type: Sealed, valve-regulated lead acid</p> <p>Recharge time: 10-12 times the discharge time to 95%</p> <p>Other battery options: Wet cell and nickel-cadmium batteries; open racks available</p> <p><i>For battery run times and configurations, refer to Bulletin BAT01FXA.</i></p>
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Safety	<p>UL1778 Listed</p> <p>CUL CAN/CSA C22.2 NO.107.1-M91 Listed</p> <p>EN 50091-1</p> <p>All cabinets provide seismic mounting features</p> <p>Selectable DC ground fault detection capability</p>
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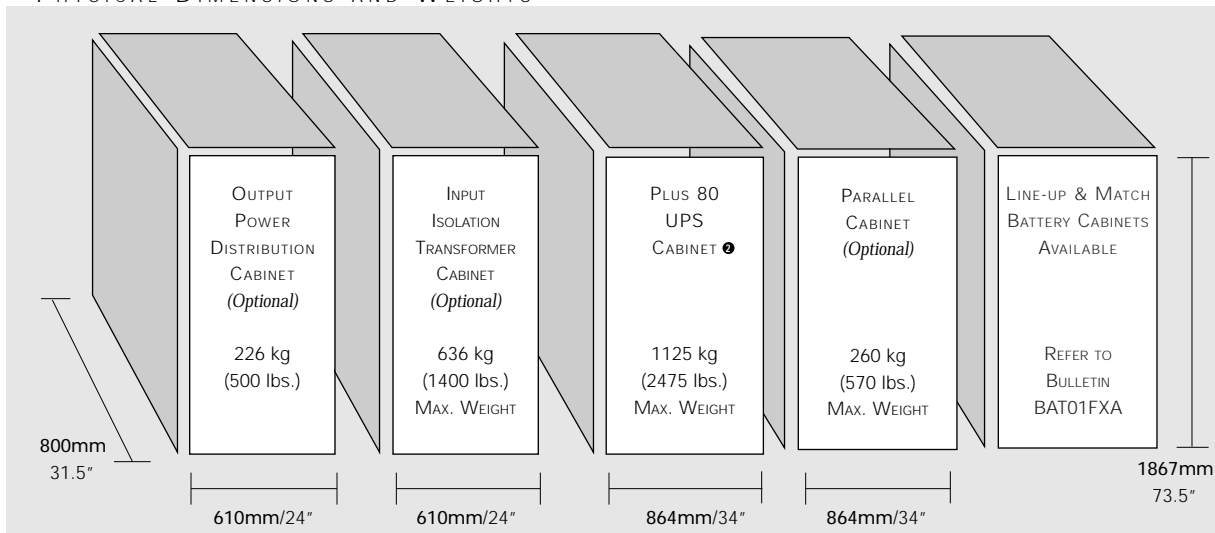
Specifications subject to change without notice.

Powerware Plus 80 Performance Characteristics

		Model 50						Model 65						Model 80					
		50kVA/40kW						65kVA/52kW						80kVA/64kW					
Input Voltage	Volts	480	480	208	220	600	400 ^①	480	480	208	220	600	400 ^①	480	480	208	220	600	400 ^①
Output Voltage	Volts	208	480	208	208	208	400	208	480	208	208	208	400	208	480	208	208	208	400
Input Voltage Range																			
Minimum	Volts	408	408	177	187	510	340	408	408	177	187	510	340	408	408	177	187	510	340
Maximum	Volts	528	528	229	242	660	440	528	528	229	242	600	440	528	528	229	242	660	440
Input / Output Frequency	Hz	60	60	60	60	60	50/60	60	60	60	60	60	50/60	60	60	60	60	60	50/60
AC Input (With input filter)																			
Nominal Amps	Amps	56	56	128	120	45	69	72	72	167	156	58	90	89	89	205	192	72	106
Maximum Amps	Amps	69	69	160	150	56	86	90	90	208	195	72	112	111	111	256	240	89	133
AC Input (Without input filter)																			
Nominal Amps	Amps	66	66	150	142	52	81	85	85	196	186	68	105	105	105	241	228	84	126
Maximum Amps	Amps	82	82	188	178	65	101	106	106	245	232	85	131	131	131	301	285	105	157
Bypass Input																			
Nominal Amps	Amps	60	60	139	131	48	74	78	78	180	171	63	97	96	96	222	210	77	115
AC Output																			
Nominal Amps	Amps	139	60	139	139	139	74	180	78	180	180	180	97	222	96	222	222	222	115
10 Minutes Max.	Amps	174	75	174	174	174	93	225	98	225	225	225	121	278	120	278	278	278	144
DC Link																			
Nominal DC Voltage	Volts	480	480	480	480	480	480	480	480	480	480	480	480	480	480	480	480	480	480
Float Voltage	Volts	540	540	540	540	540	540	540	540	540	540	540	540	540	540	540	540	540	540
End of Discharge	Volts	401	401	401	401	401	401	401	401	401	401	401	401	401	401	401	401	401	401
Maximum Amps	Amps	100	100	100	100	100	100	130	130	130	130	130	130	160	160	160	160	160	160
Physical Attributes (w/o batt.)																			
Installed Weight	Lbs	2000	2000	2475	2475	3400	2475	2000	2000	2475	2475	3400	2475	2000	2000	2475	2475	3400	2475
Installed Width	Inches	34	34	34	34	58	34	34	34	34	34	58	34	34	34	34	34	58	34
System Efficiencies																			
@ 100% Load	%	92	92	91	91	91	91	92	92	91	91	91	91	92	92	90	90	90	91
@ 75% Load	%	92	92	90	90	90	90	92	92	91	91	91	91	92	92	91	91	91	91
@ 50% Load	%	91	91	88	88	88	88	92	92	89	89	89	89	92	92	90	90	90	90
Full Load Heat Dissipation																			
BTU/Hr. (x1000)		11.9	11.9	13.5	13.5	13.5	13.5	15.4	15.4	17.6	17.6	17.6	17.6	19.0	19.0	24.3	24.3	24.3	21.6
KCal/Hr. (x1000)		3.00	3.00	3.40	3.40	3.40	3.40	3.89	3.89	4.43	4.43	4.43	4.43	4.79	4.79	6.12	6.12	6.12	5.45
Inverter Efficiency (Full Load)	%	93	93	93	93	93	93	93	93	93	93	93	93	93	93	93	93	93	93

① Easily adjustable for 380 or 415 VAC Input/Output, 50 or 60 Hz

PHYSICAL DIMENSIONS AND WEIGHTS



② All accessories feature plug and play capability.

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

Casters are standard for ease of installation.

Specifications subject to change without notice.

