



Powerware® Plus 18

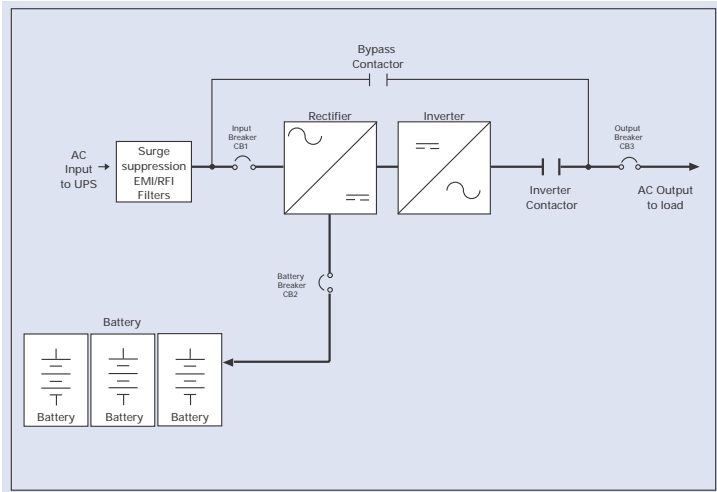
Model 12 12kVA/8kW

Model 15 15kVA/10kW

Model 18 18kVA/12kW



One line Diagram



Features

- ▶ LCD display
- ▶ Fully automatic bypass
- ▶ Extended battery options
- ▶ Remote monitoring capabilities
- ▶ System Monitoring:
 - ▶ PowerVision® network software
 - ▶ RS-232 port
 - ▶ SNMP conversion

Environmental Specifications	Ambient Temperature Operating: 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 60 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 and EN 50091-2 (CISPR 22, Class A)
Input Specifications	Voltage Range: (See chart on other side) Frequency Range: 45-65 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

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 ±3% Transient Response: Less than 5% for 100% load step; full recovery within 1/4 cycle Frequency Regulation: (Free Run) ±0.1 Hz Frequency Sync Range: ±1.0 Hz Frequency Slew Rate: 1 Hz/second maximum Voltage Adjustment Range (Operator): ±5%
Battery Specifications	Matching Cabinets – Line-up or remote Battery Type: Sealed, valve regulated lead acid Recharge Time: 12x discharge to 90% capacity Battery Voltage: 240 VDC
Safety	UL1778 Listed CUL CAN/CSA C22.2 NO.107.1-M91 Listed EN 50091-1 All Cabinets provide seismic mounting features

Specifications subject to change without notice.

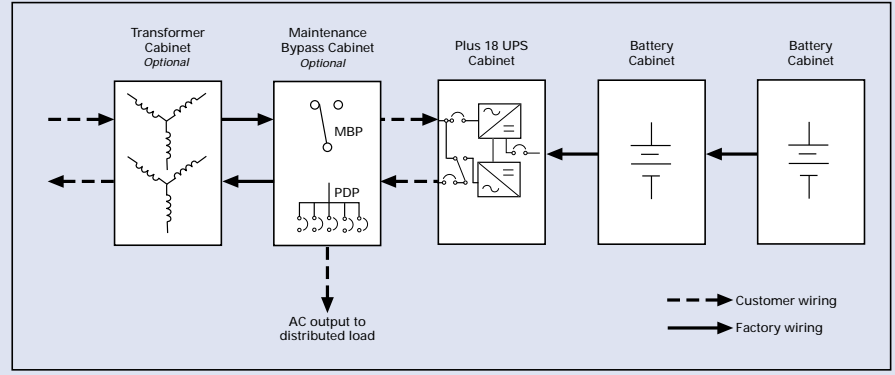
Powerware® Plus 18											
Nominal Voltage ¹ (Line-Line) Input Voltage			MODEL 12kVA/8kW			MODEL 15kVA/10kW			MODEL 18kVA/12kW		
			Max.	Maximum Rated Current Per Phase		Max.	Maximum Rated Current Per Phase		Max.	Maximum Rated Current Per Phase	
Input	Output	Range	kVA	Input	Output	kVA	Input	Output	kVA	Input	Output
200	200	176-253	11.7	29A	34A	14.5	36A	42A	17.2	43A	50A
208	208	176-253	12.2	28A	34A	15	35A	42A	18	42A	50A
220	220	176-253	11.8	26A	31A	14.8	33A	39A	17.9	39A	47A
Powerware® Plus 18 HV											
480	480	467-494	11.6	12A	14A	15	15A	18A	18.3	18A	22A
480	208	467-494	11.9	12A	33A	15.1	15A	42A	18	18A	50A

¹ Nominal UPS module input/output voltage. i.e. If unit is being used as a voltage or frequency converter, the bypass must be disabled. Input/output voltage, phase and frequency must be equal for bypass operation. Line to neutral voltage = line to line ÷ 1.73

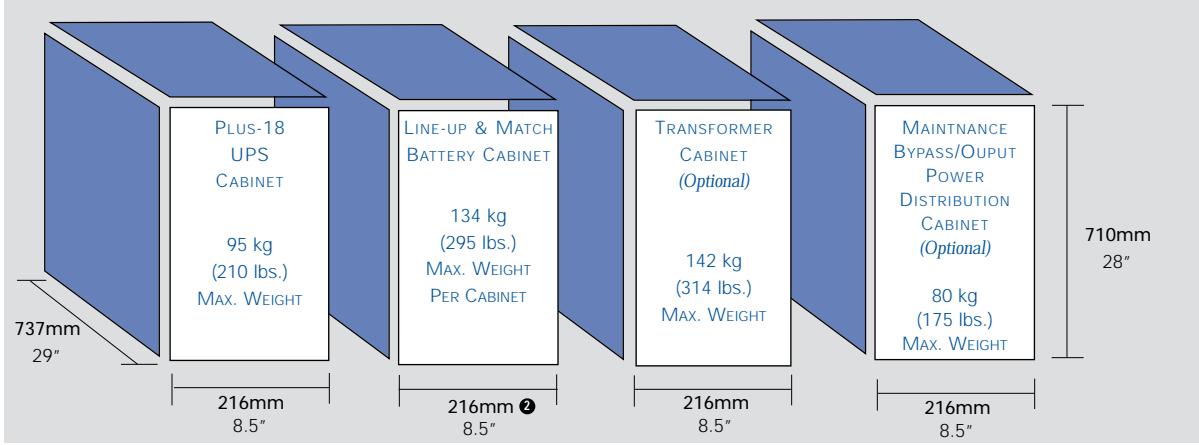
Heat Dissipation	
PPU-	Model 12 : 5200 BTU/hr / 1310 kg-cal/Hr.
	Model 15 : 6500 BTU/hr / 1638 kg-cal/Hr.
	Model 18 : 7800 BTU/hr / 1965 kg-cal/Hr.
Options-	Transformer Cabinet: 1180 BTU/hr / 298 kg-cal/Hr.

Battery back-up times				
Model 12	Model 15	Model 18	Battery Cabinet	# of Cabinets
15	10	7	B1801	2
22	16	12	B1802	2
38	29	22	B1803	3
53	41	33	B1804	4

System One Line Diagram



Physical Dimensions and Weights ①



① Refer to Installation Drawings for actual system line-up.
 ② Two battery cabinets required. Maximum of four.
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