



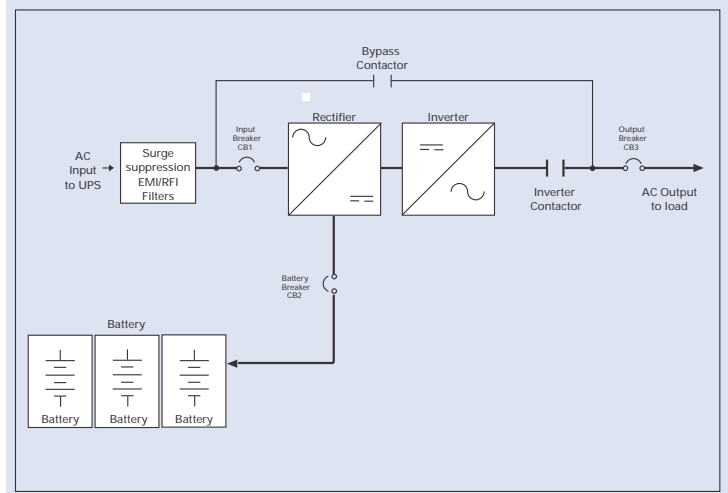
Powerware® Plus 36

Model 24 24kVA/16kW

Model 36 36kVA/24kW



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 +60°C
 Relative Humidity: 5-95% non-condensing
 Altitude: 1500 meters (5000ft.) at 40°C ambient temperature without load derating
 Audible Noise: Less than 65 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 EN50091-2 (CISPR 22, Class A)

Input Specifications

Voltage Range: (See chart on other side)
 Frequency Range: 45-65 Hz; 380-420 for 400 Hz input
 Surge Protection: Meets ANSI C62.41, Category A & B
 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 ±2%
 Transient Response: Less than 5% for 100% load step; full recovery within 1 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%
 Common Mode Noise Rejection: >85dB

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; 480 VDC for HV version

Safety

UL1778 Listed
 CUL CAN/CSA C22.2 NO.107.1-M91 Listed
 EN 60950 – available on 380, 400 & 415V configuration
 All Cabinets provide seismic mounting features

Specifications subject to change without notice.

Powerware® Plus 36

Nominal Voltage ^① (Line-Line)			MODEL 24				MODEL 36			
			Input Voltage		Max	Nominal	Maximum Rated Current Per Phase		Max	Nominal
Input	Output	Range	kVA	kW	Input ^②	Output	kVA	kW	Input ^②	Output
200	200	176-253	23.1	16	58A	67A	34.5	24	87A	100A
208	208	176-253	24.1	16	56A	67A	36	24	84A	100A
220	220	176-253	23.6	16	53A	62A	35.8	24	79A	94A

Powerware® Plus 36 HV

480	480	410-580	24.1	16	28A	29A	35.7	24	42A	43A
480	208	410-580	24.1	16	28A	67A	36	24	42A	100A

① Nominal input/output voltage, phase and frequency must be equal for bypass operation. Line – Neutral voltage = Line - Line ÷ 1.73.

② Input and output currents are approximately the same when the load is powered through the bypass. Add up to 10A per phase for battery charge current.

Heat Dissipation

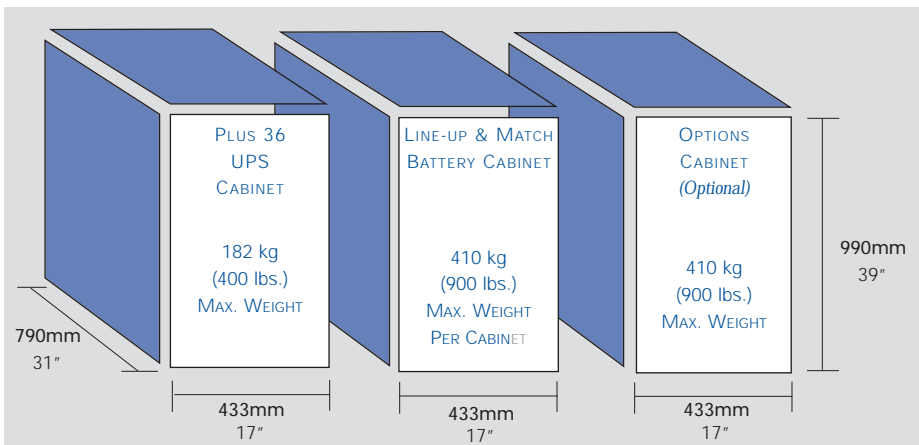
Model 24 : 10,402 BTU/hr / 2621 kg-cal/Hr.

Model 36 : 15,602 BTU/hr / 3932 kg-cal/Hr.

Battery back-up times

Model 24	Model 36	Battery Cabinet	# of Cabinets
12	5	B3601	1
30	15	B3602	2
50	30	B3603	3

Physical Dimensions and Weights^③



③ Refer to Installation Drawings for actual system line-up.

Specifications subject to change without notice.



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