

7 Product Specifications

Powerware Plus 36 UPS Technical Specifications

Rating	3600-024K at .8 pf: 20 kVA, 16 kW 3600-024K at .67 pf: 24 kVA, 16 kW 3600-036K at .8 pf: 30 kVA, 24 kW 3600-036K at .67 pf: 36 kVA, 24 kW																																										
Nominal Input Voltage	115/200 VAC three-phase 120/208 VAC three-phase 127/220 VAC three-phase																																										
Input Power Factor	0.95 typical																																										
Nominal Frequency	50/60/400 Hz (400 Hz only available on special units) Note: Bypass functionality is not available for 400-Hz output.																																										
Nominal Input Phase Current*	<table> <tr> <td>3600-024K:</td> <td>115/200 VAC</td> <td>58A</td> </tr> <tr> <td></td> <td>120/208 VAC</td> <td>56A</td> </tr> <tr> <td></td> <td>127/220 VAC</td> <td>53A</td> </tr> <tr> <td></td> <td>220/380 VAC</td> <td>35A</td> </tr> <tr> <td></td> <td>230/400 VAC</td> <td>34A</td> </tr> <tr> <td></td> <td>240/415 VAC</td> <td>32A</td> </tr> <tr> <td></td> <td>277/480 VAC</td> <td>28A</td> </tr> <tr> <td>3600-036K:</td> <td>115/200 VAC</td> <td>87A</td> </tr> <tr> <td></td> <td>120/208 VAC</td> <td>84A</td> </tr> <tr> <td></td> <td>127/220 VAC</td> <td>79A</td> </tr> <tr> <td></td> <td>220/380 VAC</td> <td>53A</td> </tr> <tr> <td></td> <td>230/400 VAC</td> <td>51A</td> </tr> <tr> <td></td> <td>240/415 VAC</td> <td>49A</td> </tr> <tr> <td></td> <td>277/480 VAC</td> <td>42A</td> </tr> </table>	3600-024K:	115/200 VAC	58A		120/208 VAC	56A		127/220 VAC	53A		220/380 VAC	35A		230/400 VAC	34A		240/415 VAC	32A		277/480 VAC	28A	3600-036K:	115/200 VAC	87A		120/208 VAC	84A		127/220 VAC	79A		220/380 VAC	53A		230/400 VAC	51A		240/415 VAC	49A		277/480 VAC	42A
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Nominal Output Phase Current (at 0.67 pf)	<table> <tr> <td>3600-024K</td> <td>115/200 VAC</td> <td>67A</td> </tr> <tr> <td></td> <td>120/208 VAC</td> <td>67A</td> </tr> <tr> <td></td> <td>127/220 VAC</td> <td>62A</td> </tr> <tr> <td>3600-036K:</td> <td>115/200 VAC</td> <td>100A</td> </tr> <tr> <td></td> <td>120/208 VAC</td> <td>100A</td> </tr> <tr> <td></td> <td>127/220 VAC</td> <td>94A</td> </tr> </table>	3600-024K	115/200 VAC	67A		120/208 VAC	67A		127/220 VAC	62A	3600-036K:	115/200 VAC	100A		120/208 VAC	100A		127/220 VAC	94A																								
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Output Power Factor	0.8, 1.0, 0.67 pf for all loads, including nonlinear loads																																										
Heat Dissipation (208V input full load at 0.8 pf)	3600-024K: 10,402 BTU/Hr (2,621 Kg-Cal/Hr) 3600-036K: 15,602 BTU/Hr (3,932 Kg-Cal/Hr)																																										
Neutral Current Capability	175% of phase current																																										
Crest Ratio	3:1																																										
Unbalanced Load Capability	100%, any phase(s)																																										
Operating Environment	Operating Temperature: 0° to 40°C Humidity: 5% to 95% (noncondensing) Elevation: 5000 ft maximum without derating																																										
*Input current is the same as the output current when load is powered through bypass.																																											

Powerware Plus 36 UPS Physical Specifications

Parameter	Power Processor Cabinet	Battery Cabinet	I/O Cabinet
Height	39" (99 cm)	39" (99 cm)	39" (99 cm)
Width	17.2" (43.7 cm)	17.2" (43.7 cm)	17.2" (43.7 cm)
Depth	37.2" (94.4 cm)	31" (78.7 cm)	37.2" (94.4 cm)
Weight	400 lb (182 kg)	900 lb (410 kg)	900 lb (410 kg)
Floor Loading	1.73 lb/in ² (0.12 kg/cm ²)	225 lb (103 kg)	225 lb (103 kg)

Powerware Plus 36 UPS with I/O Cabinet Technical Specifications

Rating (at .8 pf)	3600-024K: 20 kVA, 16 kW 3600-036K: 30 kVA, 24 kW	
Rating (at .67 pf)	3600-024K: 24 kVA, 16 kW 3600-036K: 36 kVA, 24 kW	
Nominal Input Voltage	220/380 VAC three-phase 230/400 VAC three-phase 240/415 VAC three-phase 277/480 VAC three-phase	
Input Power Factor	0.95 typical	
Nominal Frequency	50/60 Hz	
Nominal Input Phase Current*	3600-024K: 220/380 VAC 35A 230/400 VAC 34A 240/415 VAC 32A 277/480 VAC 28A 3600-036K: 220/380 VAC 53A 230/400 VAC 51A 240/415 VAC 49A 277/480 VAC 42A	
Nominal Output Phase Current (at .67 pf)	3600-024K: 220/380 VAC 36A 230/400 VAC 35A 240/415 VAC 33A 277/480 VAC 29A 3600-036K: 220/380 VAC 54.5A 230/400 VAC 52.2A 240/415 VAC 50A 277/480 VAC 43.3A	
Output Power Factor	0.8, 1.0, 0.67 pf for all loads, including nonlinear loads	
Heat Dissipation (208V input full load at 0.8 pf)	3600-024K: 10,402 BTU/Hr (2,621 Kg-Cal/Hr) 3600-036K: 15,602 BTU/Hr (3,932 Kg-Cal/Hr)	
Input Current Total Harmonic Distortion	<10% per phase (when input current filter option is installed); depends on input source impedance	

Power Distribution Panel Board	30-pole, rated 120/208 VAC (available from Exide Electronics)
Maintenance Bypass Switch	“Make-before-break” style, rated 200 A for 100% non-linear load applications. Position 1: UPS Output Position 2: Bypass Utility
Neutral Current Capability	175% of phase current
Crest Ratio	3:1
Unbalanced Load Capability	100%, any phase(s)
Operating Environment	Operating Temperature: 0° to 40°C Humidity: 5% to 95% (noncondensing) Elevation: 5000 ft maximum without derating
*Input current is the same as the output current when load is powered through bypass.	

Powerware Plus 36 UPS Battery Specifications

Nominal Battery-String Voltage	240 Vdc (120 cells)
Nominal Battery Current	3600-024K: 78A 3600-036K: 118A
Battery Type	Sealed, maintenance-free, high-rate discharge, lead-acid cells
Expected Life	5 years or a maximum of 200 deep discharges

