

## Powerware® Plus 36 On-line Uninterruptible Power System

|                  |                           |
|------------------|---------------------------|
| MODEL 24kVA/16kW | 200/115, 208/120, 220/127 |
| MODEL 36kVA/24kW | 200/115, 208/120, 220/127 |



| BATTERY BACK-UP TIMES (IN MINUTES) |              |              |              |
|------------------------------------|--------------|--------------|--------------|
| Output Watts                       | 1 Batt. Cab. | 2 Batt. Cab. | 3 Batt. Cab. |
| 8000                               | 30           | 80           | 128          |
| 9000                               | 25           | 72           | 110          |
| 10000                              | 22           | 65           | 98           |
| 11000                              | 20           | 57           | 88           |
| 12000                              | 18           | 50           | 78           |
| 13000                              | 15           | 45           | 70           |
| 14000                              | 14           | 40           | 62           |
| 15000                              | 13           | 35           | 56           |
| 16000                              | 12           | 30           | 50           |
| 17000                              | 11           | 27           | 47           |
| 18000                              | 10           | 24           | 43           |
| 19000                              | 9            | 22           | 40           |
| 20000                              | 8            | 20           | 37           |
| 21000                              | 7            | 18           | 35           |
| 22000                              | 6            | 17           | 33           |
| 23000                              | 5            | 16           | 31           |
| 24000                              | 5            | 15           | 30           |

Ideal for networks, computer rooms and small facilities, Exide Electronics' Powerware Plus 36 on-line uninterruptible power systems (UPS) offer the most flexible range of power protection available.

Data processing equipment, industrial controls and sensitive electronics require continuous protection from utility degradation and outages. The Plus 36 UPS provides the on-line performance and reliability necessary for that protection.

Exide Electronics' Plus 36 is tailored to meet the requirements of your application. External battery connections are built-in for customized long-term power protection.

Combine the Powerware Plus 36 with Exide Electronics' OnliNet® software for complete network power management. With OnliNet, you can view power conditions and solve power problems from any network workstation.

Other features of the Plus 36 include:

- LCD display
- SNMP compatibility
- Fully automatic bypass
- On-site start-up and service
- Extended battery options
- Remote monitoring capabilities

Whether you have a distributed network, centralized computing, or some combination of the two, the Plus 36 gives you the most reliable, complete power management across all computing levels.



| Powerware® Plus 36                            |         |         |          |         |                                 |        |          |         |                                 |        |
|---|---------|---------|----------|---------|---------------------------------|--------|----------|---------|---------------------------------|--------|
| Nominal Voltage <sup>1</sup><br>Input Voltage |         |         | MODEL 24 |         |                                 |        | MODEL 36 |         |                                 |        |
|   |         |         | Max.     | Nominal | Maximum Rated Current Per Phase |        | Max.     | Nominal | Maximum Rated Current Per Phase |        |
| Input   | Output  | Range   | kVA      | kW      | Input <sup>2</sup>              | Output | kVA      | kW      | Input <sup>2</sup>              | Output |
| 115/200                                       | 115/200 | 176-253 | 23.1     | 16      | 58A                             | 67A    | 34.5     | 24      | 87A                             | 100A   |
| 120/208                                       | 120/208 | 176-253 | 24.1     | 16      | 56A                             | 67A    | 36       | 24      | 84A                             | 100A   |
| 127/220                                       | 127/220 | 176-253 | 23.6     | 16      | 53A                             | 62A    | 35.8     | 24      | 79A                             | 94A    |
| Powerware® Plus 36 HV                         |         |         |          |         |                                 |        |          |         |                                 |        |
| 220/380                                       | 220/380 | 323-552 | 23.8     | 16      | 35A                             | 36A    | 35.6     | 24      | 53A                             | 54A    |
| 220/380                                       | 120/208 | 323-552 | 24.1     | 16      | 35A                             | 67A    | 36       | 24      | 53A                             | 100A   |
| 230/400                                       | 230/400 | 340-485 | 24.2     | 16      | 34A                             | 35A    | 35.9     | 24      | 51A                             | 52A    |
| 230/400                                       | 120/208 | 340-485 | 24.1     | 16      | 34A                             | 67A    | 36       | 24      | 51A                             | 100A   |
| 240/415                                       | 240/415 | 353-500 | 23.8     | 16      | 32A                             | 33A    | 36       | 24      | 49A                             | 50A    |
| 240/415                                       | 120/208 | 353-500 | 24.1     | 16      | 32A                             | 67A    | 36       | 24      | 49A                             | 100A   |
| 277/480                                       | 277/480 | 410-580 | 24.1     | 16      | 28A                             | 29A    | 35.7     | 24      | 42A                             | 43A    |
| 277/480                                       | 120/208 | 410-580 | 24.1     | 16      | 28A                             | 67A    | 36       | 24      | 42A                             | 100A   |

<sup>1</sup> Nominal input/output voltage, phase and frequency must be equal for bypass operation.

<sup>2</sup> Input and output current s are approximately the same when the load is powered through the bypass.

| Powerware® Plus 36  |   | SPECIFICATIONS † |
|---|---|------------------|
| <b>INPUT</b>  |   |                  |
| Frequency Range   | 45 – 65 Hz, 380 – 420 Hz  |                  |
| Surge Protection  | Meets IEEE 587/ANSI C62.41 Category A & B   |                  |
| Power Factor  | 0.95 Typical  |                  |
| <b>OUTPUT</b>   |   |                  |
| Voltage Regulation  | Typically < ±2%   |                  |
| Voltage THD   | <5% – 100% nonlinear load; <3% – 100% linear load   |                  |
| Transient Response  | <5% for 100% load step full recovery within 1 cycle   |                  |
| Frequency   | ±0.1 Hz (Free Run)  |                  |
| Frequency Sync. Range   | ±1 Hz   |                  |
| Frequency Slew Rate   | 1 Hz/Second   |                  |
| Load Crest Ratio  | 3:1   |                  |
| Common Mode Noise Rejection   | >85 dB  |                  |
| <b>ENVIRONMENTAL</b>  |   |                  |
| Ambient Temperature   | 0°C to +40°C  |                  |
| Battery Storage   | -20°C to +60°C  |                  |
| Relative Humidity   | 5 – 95% minimum non-condensing  |                  |
| Altitude  | 1500 meters (5000 feet) without derating  |                  |
| Audible Noise   | Less than 65 dBA at 1 meter   |                  |
| EMI Suppression   | Meets FCC Class A, Subpart J of Part 15   |                  |
| Electrostatic Discharge   | Withstands 25kV without damage or disturbance to the load                                     |                  |
| Heat Rejection  |   |                  |
| Model 24  | 10,402 BTU/Hr.  |                  |
| Model 36  | 15,602 BTU/Hr.  |                  |
| <b>BATTERY</b>  |   |                  |
| Battery Type  | Sealed lead-acid/maintenance free   |                  |
| Battery Voltage   | 240 VDC   |                  |
| Recharge Time   | 10 to 12 times the discharge time   |                  |
| <b>SAFETY</b>   |   |                  |
| UL 1778, CSA C22.2, EN60950 - Available on 380V, 400V, 415 configurations |   |                  |
| <b>MECHANICAL</b>   |   |                  |
| Weight: Power Processor Cabinet & Std. Battery                            | 590 kg / 1300 lbs.  |                  |
| Weight: Options Cab. (Not required for all apps.)                         | 410 kg / 900 lbs.   |                  |
| Dim.: Power Processor Cabinet & Std. Battery                              | 990mm <i>h</i> x 870mm <i>w</i> x 790mm <i>d</i> / 39" <i>h</i> x 34" <i>w</i> x 31" <i>d</i> |                  |
| Dim.: Additional Battery Battery  | 990mm <i>h</i> x 435mm <i>w</i> x 790mm <i>d</i> / 39" <i>h</i> x 17" <i>w</i> x 31" <i>d</i> |                  |

† Specifications subject to change without notice.

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