JETPOWER® PWM2
400 Hz Ground Power System
**PWM2 Technical Specifications**

**Maximum Input Current**

<table>
<thead>
<tr>
<th>Input Volts</th>
<th>45 kVA</th>
<th>90 kVA</th>
<th>140 kVA</th>
<th>180 kVA</th>
</tr>
</thead>
<tbody>
<tr>
<td>380 V.</td>
<td>63 Amps</td>
<td>126 Amps</td>
<td>196 Amps</td>
<td>252 Amps</td>
</tr>
<tr>
<td>400 V.</td>
<td>60 Amps</td>
<td>120 Amps</td>
<td>186 Amps</td>
<td>239 Amps</td>
</tr>
<tr>
<td>415 V.</td>
<td>58 Amps</td>
<td>116 Amps</td>
<td>179 Amps</td>
<td>232 Amps</td>
</tr>
<tr>
<td>480 V.</td>
<td>50 Amps</td>
<td>100 Amps</td>
<td>155 Amps</td>
<td>200 Amps</td>
</tr>
</tbody>
</table>

**Contact factory for availability.**

**Dimensions (All Point of Use Units)**

Width: 60" (1.53 m)
Height: 24" (.61 m)
Depth: 50" (1.27 m)

**Weight (Approximate)**

<table>
<thead>
<tr>
<th>45 kVA - 90 kVA</th>
<th>140 kVA - 180 kVA</th>
</tr>
</thead>
<tbody>
<tr>
<td>1,200 lbs. (544 kg)</td>
<td>2,000 lbs. (911 kg)</td>
</tr>
</tbody>
</table>

**Housing**

Completely sealed with no air transfer from external sources to internal electronic circuits (NEMA 3R or IP23) with an Aluminum case and structural members. Case is fully alodine treated. Custom colors are available.

**Environmental Conditions**

Capable of normal operation from -40°C to +55°C (-40°F to +131°F).

**Noise**

Not greater than 65 dBA at 1.5 m height, 1 m distance.

**Maintenance**

- No preventative maintenance required. Mean Time To Repair (MTTR) 30 minutes at module level. Reduced part count and increased circuit and component protection enhance reliability.

**Input**

- AC Power: 380-480 Volt, 3 phase, 50/60 Hertz, at -15% to +10% of nominal voltage rating, unit is phase rotation independent.
- Starting Current: Starting inrush not to exceed 100% current required when operating at rated output.
- Power Factor: From 25% to 100% rated load, input power factor is greater than 0.95.
- Input Current Distortion: 10% or less input current distortion from the mains with the standard 12 step rectifier system.
- Efficiency: Greater than 91% at any load above 50% of rated load.

**Output Voltage, Frequency, and Phase**

- Voltage Drift: Less than 1% at constant load (ambient temperature change 55°C in 8 hours).
- Voltage Regulation: Better than 1%.
- Total Harmonic Distortion: Less than 3% (line-to-line). Individual harmonics less than 2%.
- DC Content: Less than 100 mV.
- Voltage modulation: Less than 0.5% as measured from the peak of one waveform to the peak of another adjacent waveform under steady rated load conditions.
- Transient Performance: Output voltage recovery less than 50ms at 100% load change.
- Voltage Operating Range: +/- 10% of rated voltage.
- Output Frequency Regulation: 400 Hz +/- 0.1%.
- Balanced Phase Displacement: 120° +/- 1.5° (balanced load).
- Unbalanced Phase Displacement: 120° +/- 4.0° (15% unbalanced load).

**Overloads and System Protection**

- Overload Capacity: 125% for 10 minutes, 150% for 30 seconds, 200% for 10 seconds.

**Internal Controls and Indicators**

- Auto/manual Switch–Voltage Control
- 28 Volt E/F Interlock Bypass Switch
- Start/Stop Control
- Remote Voltage Sense Switch
- Line Drop Compensation
- DC Bus Voltage Adjustment
- LCD Display Contrast Adjustment
- Voltage Adjustment (+/- 10%)
- Hour Meter (99,999 hrs.)

**External Front Panel Lights**

- Solid Red Light–Internal or External Fault
- Solid Yellow–Input Power Applied
- Flashing Yellow–28 Volt Feedback Bypassed
- Solid Green–400 Hz Power Present
- Flashing Green–28 Volt Feedback not available

**LCD Display Plain English Indicators**

- Input Voltage Phase A
- Input Voltage Phase B
- Input Voltage Phase C
- Input Voltage Average (3 Phase Avg.)
- Input Current (3 Phase Avg.)
- Output Voltage Phase A
- Output Voltage Phase B
- Output Voltage Phase C
- Output Voltage Average (3 Phase Avg.)
- Phase A Output Current
- Phase B Output Current
- Phase C Output Current
- Output Current Average (3 Phase Avg.)
- Output kVA (total)
- Accumulated Kilowatt hours
- Output Frequency
- +5 VDC
- +15 VDC
- +24 VDC
- Fault/Event History

All operating readings and event history are available on optional RS232/485 Data Port.

Also available with 28 VDC Power.

**FMC Technologies Inc.**

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