



## LED Signal Battery Backup System NEMA 24-Volt

<b>Output Voltage:</b>	120 VAC regulated (110 to 125VAC)
<b>Output Frequency:</b>	60 Hz $\pm$ 0.05%
<b>Output Waveform:</b>	Pure sine wave, less than 3% THD
<b>Input Voltage: (VDC)</b>	21 to 28
<b>Operating Temperature:</b>	-37° to 74° C (-35° to 165° F)
<b>Efficiency:</b>	Up to 85%

### Other Design Features:

- LISTED Power Supply (BBS) for use with Traffic Signal Equipment. File: QQIJ, E218390
- Thermally-controlled cooling fan
- Automatic utility line power bypass when utility line voltage is outside the range of 100 to 130 VAC  $\pm$  2 VAC
- Automatic inverter mode dropout when utility line power has been restored above 105 VAC  $\pm$  2 VAC for more than 30 seconds
- Lightning surge protection compliant with IEEE 587/ANSI C.62.41
- Completely connectorized system
- LED indication for Inverter Power, Low Battery, High Temp, & Overload
- LED for Battery Charger On & Full plus Check Batteries
- LED Battery Voltage Indicator & Voltage Test Points
- LED for Relay A (On Batt), Relay B (Low Batt), and Relay C (2 hour Time)
- Two terminal blocks provide access to BBS Form C dry relay contacts
- Low Batt voltage threshold (Relay B) is adjustable
- Inverter Run Time Meter w/reset
- Inverter Event Counter Meter w/reset

### Unit Protection:

- Automatic electronic short circuit/overload protection
- Automatic over temperature shutdown
- Input and Output circuit breakers

### Battery Protection:

- Automatic low battery shutdown at 21 VDC
- In-line battery cable fuse
- Remote temperature sense cable
- Temperature compensated battery charging system - shuts off over 50°C (122°F)

### Communication:

- RS232 Communications port provides local programming, BBS status, and download of event buffer via a Windows based PC.

<b>MODEL NUMBER</b>	<b>24J11</b>
<b>Output Power</b> (Watts Continuous)	1,100 @ 25°C (77°F), 700 @ 74°C (165°F)
<b>Output Current</b> (Amps AC)	Up to 9
<b>Peak Output</b> (Amps AC)	37
<b>Input Current</b> (Amps DC)	Up to 55
<b>Weight</b> (Lbs.)	41
<b>Dimensions (WxDxH)</b> (inches)	12½ x 13 x 8
<b>BATTERY CHARGER</b>	
<b>Output Voltage</b> (Volts DC)	Regulated and temperature compensated end of charge at 27.6
<b>Output Current</b> (Amps DC)	Up to 13
<b>Input Current</b> (Amps AC)	Up to 7
<b>TRANSFER RELAY</b>	
<b>Current Rating</b> (Amps AC)	15
<b>Transfer Time</b> (milliseconds)	40 typical

**Usage:** All NEMA traffic equipment within the inverter's power rating.

**Warranty:** Two year parts and factory labor with **Advance Replacement Program**