



I100 POWER DISTRIBUTION CENTER – 100 AMPS



I100 Power
Distribution Center
100 AMPS

DESCRIPTION

The I100 distribution center qualifies input power and improves availability of power by automatically balancing phases. Custom Manufacturing & Engineering™ (CME™) has developed an I100 product that is lighter, smaller, and more easily transported than the M100. CME's I100 has improved power distribution and management features and is safer for the soldier to operate. The device distributes single- and three-phase power, while monitoring a power source and all controlled circuits and provides total system feedback of the power network.

I100 provides improved performance, power delivery, safety, and ease of use over any other commercial or military power distribution center.

Designed, developed, and tested through a Phase I, II, and III Army SBIR project, I100 has benefitted from the I200 development which has been matured and represents a significant capability improvement. The product family has participated in military user evaluations, exercises, and demonstrations.

APPLICATIONS

I100 is an intelligent power distribution unit suitable for any:

- Isolated location and/or encampments
- Mini-grid applications

CME's I100 intelligently monitors and distributes power from generators to shelters, tents, tactical operation centers, base camps, field hospitals, and logistics operations. The I100 power distribution center will significantly improve power distribution at the company through division and higher echelon units in the field.

The I100 can distribute power from a single 30 kW Tactical Quiet Generator (TQG). Other military or commercial three-phase or single-phase generators can be distributed through an I100.

KEY FEATURES & BENEFITS

- Improved power distribution and management system
- Automatic phase load balancing of single-phase loads across all phases
- Real-time monitoring of a power source and all controlled circuits
- Monitors generator total power, total VA, voltage, current, and frequency
- Supports existing connectors, cabling, and lighting equipment
- Compatible with Tactical Quiet Generators
- All weather ruggedized design
- Smaller than M100 PDISE legacy unit
- Easy to transport or handle
- Fewer number and types of cables are required
- Automatically qualifies generator inputs
- User friendly; informs users of generator qualification issues
- Helps alleviate training deficiencies
- Safe paralleling and transfer of loads between generators
- Reduced operating costs and maintenance maximizing generator fuel efficiency

We Love to Design and Build!

Custom Manufacturing & Engineering™ ♦ ISO 9001:2008 & AS9100C Registered 3690
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I100 PDU Datasheet 050515(A)

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SPECIFICATIONS

INPUT	120/208 VAC, 50/60 Hz One 100 Amp three-phase inputs
OUTPUT	One 100 Amp three-phase outputs Three 60 Amp three-phase outputs Three 60 Amp single-phase outputs Six 20 Amp single-phase outputs
FINISH	CARC
ENVIRONMENTAL	Designed to MIL-STD-810 and MIL-STD-461
TEMPERATURE	-25°F (-32°C) to +120°F (49°C) operating -28°F (-33°C) to +160°F (71°C) storage
ALTITUDE	8,000 feet (2438.4 m)
BOX SIZE	27 in (68.58 cm) H x 19.2 in (48.768 cm) W x 20 in (50.80 cm) D
WEIGHT	78 pounds (35.38 kg)
CONTROLS AND DISPLAY	Front lighted LCD; MOP gear compatible; joystick and toggle switches
SAFETY	Operator help screens and guidance; alarm levels; warning messages; auto-shutdown
GENERATORS SUPPORTED	One 30 kW



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