



I40 POWER DISTRIBUTION CENTER – 60 AMPS



I40 Power
Distribution Center
60 AMPS

DESCRIPTION

The I40 distribution center qualifies input power and improves availability of power by automatically balancing phases. Custom Manufacturing & Engineering™ (CME™) has the I40 power distribution unit (PDU) that is lighter, smaller, and more easily transported than the legacy M40 PDISE in the U.S. Army. CME's I40 has improved power distribution and management features and is safer to operate than any other tactical PDU. The unit distributes single- and three-phase power, while monitoring a power source and all controlled circuits and provides total system feedback of the power network. The unit provides improved performance, power delivery, safety, and ease of use over any other commercial or military power distribution center.

Uniquely, the I40 performs automatic phase load balancing and real time monitoring of the power source. Designed, developed, and tested through a Phase I, II, and III Army SBIR project, I40 has benefitted from the I200 development which includes significant performance improvements. The product family has participated in military user evaluations, exercises, and demonstrations.

APPLICATIONS

I40 is an intelligent power distribution unit.

- Isolated locations and encampments
- Mini-grid applications

CME's I40 intelligently monitors and distributes power from generators to shelters, tents, field operation centers, base camps, field hospitals, and logistics operations. The I40 power distribution center will significantly improve power distribution at the company through division and higher echelon units in the field.

The I40 can distribute power from a single 15 kW, 10 kW, or 5 kW Tactical Quiet Generator (TQG). It can also provide branch circuits distributed from M200, M100, I200 or I100. Other military or commercial three-phase or single-phase generators can be distributed through an I40.

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 M40 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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I40 PDU 050515 (A)

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SPECIFICATIONS

INPUT	120/208 VAC, 50/60 Hz One 60 Amp three-phase input
OUTPUT	One 60 Amp three-phase outputs Twelve 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	21.8 in (309.372 cm) H x 19.2 in (48.768 cm) W x 20 in (50.80 cm) D
WEIGHT	55 pounds (24.95 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



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