



400 Hz DISTRIBUTION PANELS



HOBART:

Hobart 400 Hz power distribution equipment has been designed for use with Hobart PoWerMaster frequency converters. They are used to distribute 3 phase, 115/200 volt, 400 Hz power to several different aircraft positions. As many as five aircraft locations can be supplied with closely regulated 400 Hz power from one frequency converter.

Distribution panels can be supplied with three, four, or five circuits. The floor mounted metal box conforms to NEMA standards for Type 4 Watertight enclosures and are suitable for outdoor as well as indoor installations. A 90 kVA load contactor is provided for each individual circuit. Each circuit can be controlled with its own remote pushbutton station, which are offered as optional equipment by Hobart.

Overload and short circuit protection for each circuit is provided by Hobart solid state overload boards and relays. Trip values for any load from 30 kVA to 90 kVA can be factory set for each circuit. Overload indicating lights and terminals are provided for each circuit. The interior panel is neatly and logically arrange with the components of each circuit grouped together. A clear Lexan shield protects operators from accidental contact with the terminals. Output terminals are equipped with universal pressure lugs for dual conductor Size #4 to 600 MCM cable.

Model	Circuits	Width	Height	Depth	Weight
DP-90-3	3	61" (155 cm)	78" (198 cm)	12" (30.5 cm)	692 lbs. (314 kg)
DP-90-4	4	61" (155 cm)	78" (198 cm)	12" (30.5 cm)	715 lbs. (325 kg)
DP-90-5	5	61" (155 cm)	78" (198 cm)	12" (30.5 cm)	738 lbs. (335 kg)

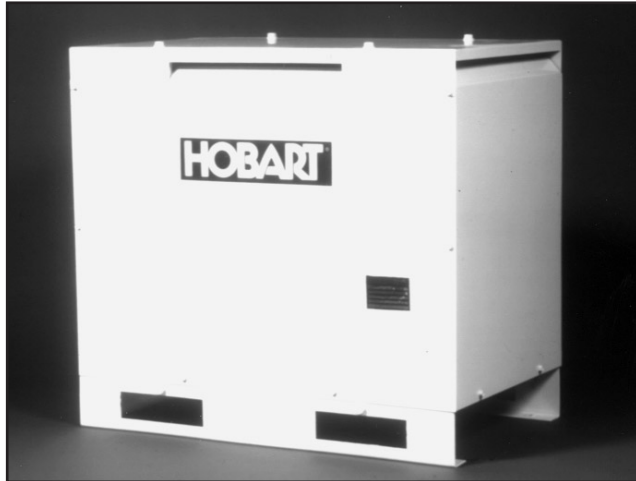
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400 Hz LINE DROP COMPENSATOR



RATING: 260 Amps
(200V, 4 wire, 3 phase)
COMPENSATION:
5% to 20%
WEIGHTS & DIMENSIONS:
Length: 30" (76.2 cm)
Width: 18" (45.8 cm)
Height: 28" (71.1 cm)
Weight: 410 lbs. (186 kg)

The Hobart Line Drop Compensator is a static device that maintains unity power factor in the individual 400 Hz transmission system between the power source and the aircraft receptacle. By constantly monitoring current, it automatically inserts sufficient capacitive resistance into the circuit to cancel the inductive resistance level of the transmission system occurring at any load up to the maximum rating of 90 kVA. At unity power factor, the transmission impedance is resistance only, thus insuring the loss in voltage, or "Line Drop", occurring between the power source and the aircraft receptacle is minimal.

MOUNTING:

The case is constructed of heavy gauge sheet steel, suitable for indoor or outdoor installation, wall or floor mounting, stacked three high. Convection cooling is utilized. Forklift slots and lifting yoke are standard.

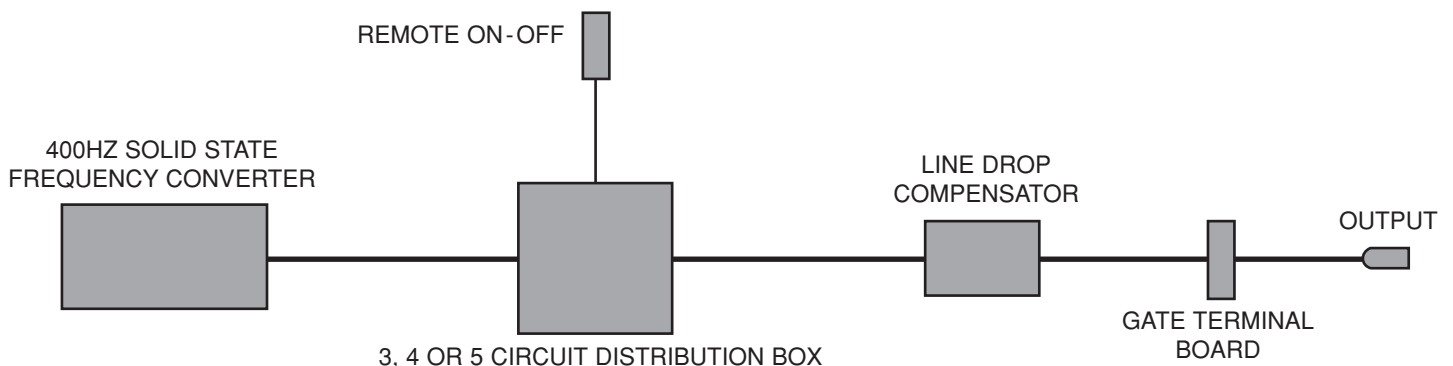
The compensator is self protecting, utilizes non-P.C.B. oil filled capacitors, is equipped with tap settings for exact tuning of individual circuits and accomplishes either of two purposes:

1. Extends transmission distance of 400 Hz power approximately 275% for a given load and cable system, with the voltage maintained at permissible limits at the aircraft receptacle;
2. Permits the use of fewer or smaller cables on shorter cable runs.

INSTALLATION:

May be installed at any convenient location in the 115/200 volt cabling system. Pressure connectors are provided for input and output connections.

TYPICAL DISTRIBUTION INSTALLATION



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