

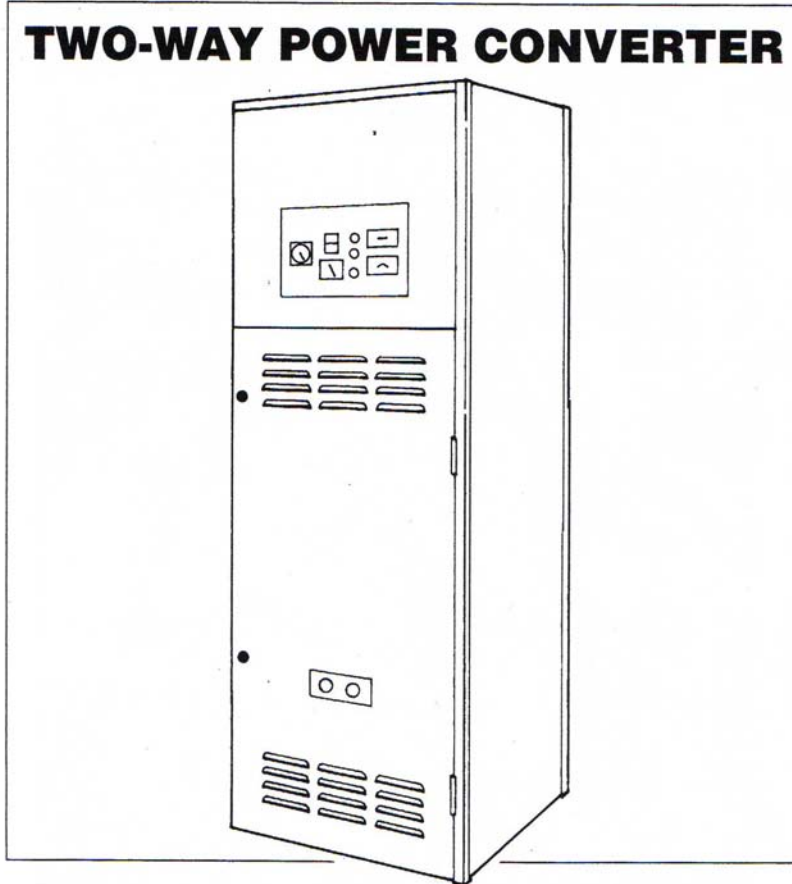
DEAKIN

RECTIFIERS LTD.

DAVENSET.



TWO-WAY POWER CONVERTER



The Davenset Two-way Power Converter allows batteries to be charged and discharged, enabling capacity tests, cycle tests, life tests, etc., to be carried out on all types of batteries.

- Charge range 10 - 80 volts
- Discharge range 10 - 80 volts
- Charge and discharge controllable between 20 - 150 amps
- Energy released during discharge is fed back into the mains



Two-way power converter

The Davenset two-way power converter allows energy from batteries to be converted into energy and fed back into the national grid. This process is controlled by a D3CVF controller via a full wave three-phase rectifier bridge with six thyristors.

During battery discharge the equipment operates as a line commutated inverter where the battery is discharged with a programmable constant current and the energy is fed back into the grid via the phase bridge and power converter.

During battery charging the charger will operate under continuous float conditions and can be calibrated for flooded lead acid, sealed valve regulated or nicad cells.

SPECIFICATION

Input	415 volts - 3 phase \pm 10% 50/60 HZ \pm 5%
Output charging	12 - 80v DC nominal at 20 - 150 amps
Input discharging	12 - 80v DC nominal at 20 - 150 amps
Cooling	Natural air convection
Ambient	35°C nominal
Controls	Mains isolator Selector switch for charge/off/discharge Start/Stop push button switch Discharge potentiometer (current control) Charge potentiometer (current control)
Meters	Digital ammeter Digital voltmeter
Protection	AC and DC fuses
Cubicle	The equipment will be housed within a floor mounting cubicle of fabricated sheet steel finished in grey gloss to BS381C - 631.
Size	2m high x 600mm wide x 600mm deep
Weight	350 kg
Connections	Input - 16.50 mm terminal blocks Output - 2 x M12 brass studs
Ordering code	D3CVF 72/150LC
Optional extra's	On-line programmer, for programmable charge/discharge cycles Other models available on application

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In accordance with the company's policy of continuous product improvement, we reserve the right to make amendments to the product specification.

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