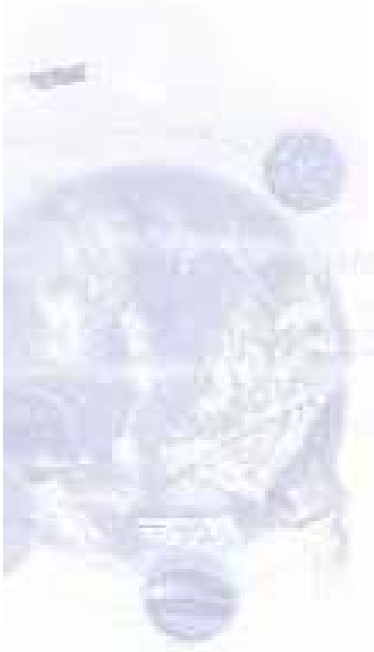


BATTERY CHARGER RECTIFIER UNIT



28 V Dc Generation + Battery Charger



- This Battery Charger Rectifier Unit (B.C.R.U.) is designed to rectify the 3 phases AC input into a regulated DC output *with a battery permanently connected to the DC bus bar.*

It enables :

- a DC supply without any break (even micro-breaks),
- a permanent charge of the battery,
- a permanent knowledge of the battery charge level.

- This equipment accepts a variable frequency input and an *active* rectifier enables :

- a very low level of current and harmonic distortion over the all frequency scale,
- no reactive power consumption.



INPUT

Nomiale voltage	:	200V - 3 phases
Frequency Range	:	370 Hz to 870 Hz

OUTPUT

Nominal power	:	4 KW
Nominal voltage	:	28 V DC
Max curent	:	220 A (250 A – 30 s)
Curent limitation	:	Yes
Galvanic insulation	:	Yes (planar transformer)
Short circuit protection	:	Yes

CHARGE

Nature	:	28V network + Batterie
features	:	

GENERAL

Efficiency	:	92 %
Cooling	:	Forced convection
Volume	:	230 x 190 x 200 mm 9 x 7.5 x 7.9 in.
Weight	:	8.5 Kg
Polarity mismatch protection	:	Yes
Digital control	:	Yes
External interface	:	ARINC 429

ENVIRONMENT

Operating temperature	:	-45°C to +70°C -49°F to +158°F
Storage temperature	:	
EMI	:	ABD 100 – DO 160C
Shocks	:	
Vibrations	:	



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Electronics for Harsh Environments