

INTRODUCTION

PowerCom rectifiers are designed by emphasizing on compact size, intelligent features and reliability. Rectifiers are designed failsafe, self-protected as well as protecting the system to which they are connected. It is ensured against overload by current limitation and provided with surge suppressores.



PROVEN DESIGN
RECTIFIER FOR PRECISION USE WITH
TELECOM, RAILWAY AND CONTINUOUS
BATTERY CHARGING EQUIPMENT.

APPLICATION

- Unattended DC stand-by systems where the battery is used to supply DC power when the main fails. Battery is kept in float charge condition continuously.
- On-line DC system, where the rectifier is used to charge the battery as well as supplying power to the load.
- Telecommunication system in which the charger is used as a Battery Eliminator.

FEATURES

- Constant voltage charging profile and ripple free regulated output voltage.
- Short circuit fail-safe design by automatic current limiting.
- Reverse polarity protection.
- Semiconductor-dropper is used to compensate high voltage when charger is connected to load in parallel.
- Complete situation monitoring options.
- Esthetically looks with heavy steel enclosure.

ELECTRICAL PARAMETERS

INPUT SPECIFICATION		OUTPUT SPECIFICATION	
INPUT VOLTAGE RANGE	: 110VAC/240VAC, 1 ϕ : 190VAC 415VAC, 3 ϕ	OUTPUT VOLT	: 6V, 12V, 24V, 36V, 48V, 60V 110V, 220V(Continuous)
INPUT VOLTAGE VARIATION	: $\pm 10\%$ / $\pm 15\%$ / $\pm 20\%$	OUTPUT CURRENT	: 1-500 AMP DC (As per req.)
FREQUENCY	: 50HZ $\pm 5\%$	RIPPLE	: 0.5% to 5% (As per req.)
LINE REGULATION	: $\pm 1\%$ FROM NO LOAD TO FULL LOAD	LOAD REGULATION	: $\pm 1\%$ -3% (As per req.) for 0-100% Load
EFFICIENCY	: 85%	FLOAT CHARGE	: 2.35VPC(Adj.)
		BOOST CHARGE	: 2.45VPC(Adj.)
		VOLTAGE STABILITY	: $\pm 1\%$
INDICATION	: MAINS ON, LOW, HIGH, CHARGING, CHARGE FULL		
METERS	: VOLTMETER AND AMPERE METER		
SAFETY ARRANGEMENT	: SHORT CIRCUIT PROTECTED BY CURRENT LIMIT. (FUSES ALSO PROVIDED FOR EVERY STEPS), MCCB FOR INPUT AND OUTPUT OVER VOLTAGE AND UNDER VOLTAGE CUTOFF. BATTERY POLARITY PROTECTED OVER LOAD PROTECTED BY CKT. BREAKER .		
TERMINAL	: OUTPUT TERMINALS FOR BATTERY AND LOAD.		
NOISE LEVEL	: TYPICALLY LESS THAN 65 dB AT 1 M		
COOLING	: NATURAL / FORCED COOLING		
AMBIENT CONDITION	: TEMPERATURE-0 $^{\circ}$ ~ 55 $^{\circ}$ C, HUMIDITY-95%		
CASING	: STEEL FRAMED AND IP SAFETY ARRANGEMENT PROVIDED		

BATTERY CHARGER SERIES

MODEL	VOLT	CAPACITY	AMP	MODEL	VOLT	CAPACITY	AMP
PCM0610	06V		10A	PCM4810	48V		10A
PCM1210	12V		10A	PCM4820	48V		20A
PCM1220	12V		20A	PCM4850	48V		50A
PCM1250	12V		50A	PCM48100	48V		100A
PCM12100	12V		100A	PCM11010	110V		10A
PCM2410	24V		10A	PCM11020	110V		20A
PCM2420	24V		20A	PCM11050	110V		50A
PCM2450	24V		50A	PCM110100	110V		100A
PCM24100	24V		100A	PCM22010	220V		10A
PCM24200	24V		200A	PCM22050	220V		50A
PCM24300	24V		300A	PCM220100	220V		100A

N. B. : PowerCom CAPABLE TO ANY CUSTOMIZED DESIGN OF BATTERY CHARGER.



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