

applications, process control, non conventional energy applications etc. These are available in various power ranges from 1-100 kilo watts and frequency from 50-2000 cycles.

Operating Principle:

This on-line AC to AC converter are force commutated high frequency I.G.B.T. /MOSFET controlled converters working on line on battery back-up.Feedback cascade mode control ensures regulated output voltage. Intelligent charging system ensures optimal charging of battery without impairing its self-life. This AC to AC converter may be operated in parallel along with facility of parallel port/serial port to enable it to interface with computer to achieve any real time voltage /current profile. Right selection of power conversion topology ensures smooth and reliable battery charging operation

Benefits:

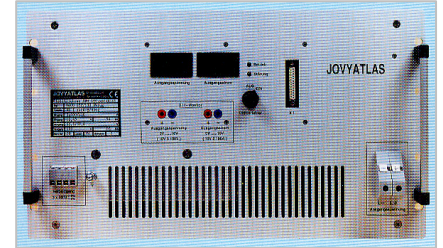
Simple installation and operational compatibility /Consistent performance over large temperature range (500°C). Online temperature display with cut-off. /Facility of programming heat profile in six steps RS-232 interface / all standards din sizes and custom sizes.Continues display of volt/ampere/frequency/ampere-charging status and other protection signals.



MACAC- 00100



MACAC- 00010



MONUPS-00050

Electrical/Mechanical specifications of on line AC TO AC CONVETER

Power 1.0 to 500 k.watts

MODEL	K.V.A (1/3 phase)	V _{battery} d.c.	Frequency Hz	Back-up Hrs	%-Efficiency	I _{charging} D.C.	Power factor (l/p)	% deration of alternator
MACAC-00001	1.0	24/48	50/400	optional	85	optional	0.95	L10%
MACAC-00002	2.0	48/72	50/400	optional	85	optional	0.95	L10%
MACAC-00005	5.0	72/96	50/400	optional	85	optional	0.95	L10%
MACAC-00010	10.0	96/120	50/400	optional	80	optional	0.95	L10%
MACAC-00020	15.0	120/144	50/400	optional	80	optional	0.95	L10%
MACAC-00050	25.0	180	50/400	optional	80	optional	0.95	L10%
MACAC-00100	50.0	180	50/400	optional	80	optional	0.95	L10%

General specification of On line AC TO AC CONVETER :

Operating voltage: 220 volts/ A.C 1/3 phase-50 Hz
 On line AC to AC CONVETER frequency: 50-2000 Hz (optional)
 Power factor: above 0.85
 Charging topology: SCR/high frequency active filtering
 Harmonic in o/p: 3% of principle
 Harmonic in main line while charging: 6% of principle
 Regulation of O/P voltage: better than 0.5 % of measurement
 Accuracy of O/P voltage: 99.5% of set point
 Repeatability of O/P voltage: 100 percent
 Response time 0.05 –10.0 sec
 Display: 3 digit LED/LCD temperature/kilo watt/charging level/Time
 Protection: Over/under voltage/over temperature indication

Dimensional specs of on line AC TO AC CONVETER :

MACAC-00001	12x24x15 inch	10 kg	MACAC-00020	123 kg	30x30x36 inch
MACAC-00002	15x24x20 inch	16 kg	MACAC-00050	210 kg	36x40x42 inch
MACAC-00005	18x24x24 inch	26 kg	MACAC-00100	340 kg	35x45x42 inch
MACAC-00010	24x24x30 inch	47 kg	MACAC-00100	390 kg	35x45x42 inch
MACAC-00100	35x45x42 inch	82 kg	MACAC-00200	470 kg	35x45x42 inch

Three numerals x 10 after MACAC indicate power of on line AC TO AC CONVETER . . .
 On line AC TO AC CONVETER lor specs are also available.



MACAC-00100

MOTORON SEMICONDUCTORS CORPORATION

33, Shri nagar colony, Shakti nagar extension, DELHI-110052. Tel: 011-23644180/23655454
 e.mail: motoron@hotmail.com