

ON-LINE UNINTERRUPTIBLE POWER SUPPLIES

MOLUPS-Series

Introduction & operating principle:

MOLUPS series of on line U.P.S. s are available in more than 20 different including regular and custom specification models virtually offering solutions to workshop on line U.P.S. heating applications like telecom, railway ,defense, computer, academics automobile, medical, forging, aerospace, and many research & development applications, avionics, medical, heavy electrical engineering, solid state physics application, process control... These are available in various power ranges from 1-100 kilo watts and frequency from 50-2000 cycles.

Operating Principle:

This on-line u.p.s. 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. These u.p.s. 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:

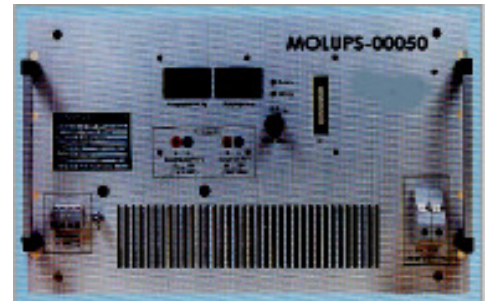
Simple installation and operational compatibility /Consistent performance over large temperature range (500°C). Online temperature display with cut-off. /Facility of programming heat profile in six steps / RS-232 interface / all standards din sizes and custom sizes./Continues display of volt/ampere/frequency/ampere-charging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



MOLUPS- 00100



MOLUPS- 00010



MOLUPS-00050

Electrical/Mechanical specifications of on line U.P.S.

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 (I/p)	% deration of alternator
MOLUPS-00001	1.0	24/48	50/400	optional	85	optional	0.95	L10%
MOLUPS-00002	2.0	48/72	50/400	optional	85	optional	0.95	L10%
MOLUPS-00005	5.0	72/96	50/400	optional	85	optional	0.95	L10%
MOLUPS-00010	10.0	96/120	50/400	optional	80	optional	0.95	L10%
MOLUPS-00020	15.0	120/144	50/400	optional	80	optional	0.95	L10%
MOLUPS-00025	25.0	180	50/400	optional	80	optional	0.95	L10%
MOLUPS-00050	50.0	180	50/400	optional	80	optional	0.95	L10%

General Electrical/mechanical specifications of On line U.P.S. :

Operating voltage: 220 volts/ A.C 1/3 phase-50 Hz

On line U.P.S. 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

Mechanical Specifications of on line U.P.S. :

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



MOLUPS-00100

MOTORON SEMICONDUCTORS CORPORATION

11-A, Shri nagar colony, Shakti nagar extension, DELHI-110052. Tel: 011-23648181/23655454
motoron@hotmail.com