NUMERIC®

HP Max

1 - 20 kVA UPS SYSTEMS

SOLAR COMPATIBILITY

ECO FRIENDLY

IS 16242 (Part-1)

R-67000248

POWER RELIABILITY AT ITS BEST

India's No.1 UPS company*

A Group brand | legrand®

HP Max Series

1 - 20 kVA UPS SYSTEMS

Designed for 0.9 PF, More active power availability

FEATURES

High Power Density

Output PF→0.9
The high power density effectively increases the higher active power handling capability.

Galvanic Isolation Option

With an option of galvanic isolation providing the highest level of protection against neutral distractions

Long Backup Flexibility

Flexible to install UPS with additional chargers for long backup using external batteries.

Cold Start Capability

The cold start capability enables turn-on battery mode during blackout condition.

1. DSP Controller Based Design

The DSP controller design improves reliability and MT

2. Active Power Factor Correction

Active PFC Reduces kVA demand thereby reducing overall power consumption and improving energy efficiency.

3. Utility Frequency Independent

Works independent of utility frequency, thus allowing to provide secure power for business critical applications.

4. Smart Battery Management

Provides protection from overcharge and deep discharge of battery thus extending battery life.

5. Good Thermal Management

UPS can operate at high temperatures. Even at 45 degrees, UPS delivers 100% without power derating.

6. Input Power Quality THDi <5%

Low input THDi avoids excessive current distortion leading to less pollution. This feature raises its green quotient and makes it eco friendly.

7. High Efficiency

The innovative design and high quality of components used, enables the UPS to achieve up to 94% efficiency, leading to significant energy savings & operational costs.

8. High Availability

Option to parallel up to 4 UPS (5-20kVA) gives flexibility to increase the power or redundancy.

ADD-ON FEATURES

- FULL FUNCTIONAL LCD DISPLAY
- STANDARD USB AND RS 232 PORT FOR INTERFACE
- SOLAR COMPATIBLE - up to 6 kVA
- HIGH PERFORMANCE AND MAXIMUM RELIABILITY
- WIDE INPUT RANGE FOR DEMANDING ELECTRICAL ENVIRONMENTS

TECHNICAL SPECIFICATIONS

CAPACITY	1kVA 0.9kW	2kVA 1.8kW	3kVA 2.7kW	5kVA 4.5KW	6kVA 5.4KW	7.5kVA 6.75KW	10kVA 9KW	7.5kVA 6.75KW	10kVA 9KW	15kVA 13.5KW	20kVA 18KW
Parameter											
INPUT	1 ph							3ph			
Phase	Single phase with ground (L-N-G)							Three phase with ground (R-Y-B-N-G)			
Voltage Range	110VAC - 300VAC (based on load percentage)							190VAC-478VAC (based on load percentage)			
Frequency	50/60 Hz (auto sensing)										
Power Factor	*>0.99, ≥0.95 (above 25% load)										
THDi	<5% with full load[1]										
BYPASS											
Voltage Range	200 VAC (2) / 208 VAC (2) / 220 VAC / 230 VAC / 240 VAC										
Frequency Range	45-55Hz / 55-65Hz										
OUTPUT											
Design PF	0.9										
Voltage	200 VAC[2] / 208 VAC[2] / 220 VAC / 230 VAC / 240 VAC										
Voltage Regulation	+/-1%										
Frequency	50/60 Hz + /-0.1Hz (free running mode)										
Synchronization Range	45-55Hz / 54-66Hz[3]					46-54Hz / 54-66Hz[3]					
Voltage Distortion	≤2% (linear load)										
	≤5% (non-linear load)										
Output Waveform	Pure sine wave										
Crest Factor	3:1										
Efficiency (AC - AC)	Up to 90%			Up to 93%				Up to 94%			
OVERLOAD	1 - 3kVA			5 - 10kVA				7.5 - 20kVA			
	110% - 10min			125% - 10 min				110% - 5min			
	130% - 1min			150% - 1min				130% - 1min			
	150% - 10sec							150% - 10sec			
BATTERY											
Battery Type	Sealed Lead Acid Maintenance Free, Lead Acid Tubular (battery AH and quantity depending on backup time)										
DC Voltage	36V DC	96V DC		240V DC				288V DC			
Charger	Build-in solid state three stage recharge (constant current, constant voltage with float charge) and with temperature compensation										
Parallel Function (optional)											
GENERAL											
Operating Temperature	0 to 45 deg. C										
Noise Level	50 dB at 1 meter			<55 dB at 1 meter							
Display & Indication	LCD display										
Status LED				Normal mode / Load on battery / Load on bypass / System fault							
Audible Alarm	Mains Failure alarm, Low Battery alarm, UPS Warning, Overload, Fault & Bypass mode, etc.										
COMMUNICATION INTERFACE											
Standard	RS 232 / USB port for software interface (any one can be used at a time)										
Intelligent Slot	For SNMP (optional)										
Dim (mm) & Wt (kg)											
Weight	7**/27	18**/39	19**/44	45	58	60	70	120	140	165	175
Floor Model (W x D x H) Without Galvanic Isolation	145 X 460 X 235	193 X 465 X 347		322 X 660 X 820		322 X 700 X 820		352 X 690 X 985		352 X 660 X 1090	
Floor Model (W x D x H) with Galvanic Isolation	203 X 450 X 390	223 X 465 X 600		322 X 660 X 820		322 X 700 X 820		352 X 690 X 985		352 X 660 X 1090	

Note : As Standard specification and designs change from time to time, Please ask for conformation of information given in this publication.

1. Source vTHD must be <2% (with nominal input 230V)
2. Derate to 90% with 200 & 208 VAC output voltage
3. Output frequency is synchronized with bypass source. If bypass source is a failure, the output frequency of UPS will go to free-run mode.

* At Nominal input voltage | Product specifications are subject to change without prior notice.
**Without Isolation Transformer.
Product certified by BIS up to 5kVA

EFFICIENT
ENERGY SAVING
PERFORMANCE

UP TO 94%

REDUCED INPUT
DEMAND WITH
POWER FACTOR

0.99

SAVE EARTH WITH HP Max Series

WHAT DOES ONLINE DOUBLE CONVERSION MEAN?

Disturbance in the input supply are eliminated through the AC to DC then DC to AC conversion process thus ensuring high level of power quality.

**Up to 6kVA

APPLICATIONS

- SMALL DATA CENTERS
- LAB APPLICATIONS
- PROCESS INDUSTRIES
- IT AND NETWORKING
- ENTERPRISE SERVER
- TELECOMMUNICATION
- ATMs
- PLCs






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