



The ultimate in clean power

A Group brand | **legrand**

NUMERIC®

Digital HP Max Series

5kVA - 20kVA

Net Ready on-Line
Double Conversion, High performance
UPS Systems with Advanced DSP technology

FEATURES

- DSP controller based design
- High Power Density- Output PF 0.9
- Active Power Factor Correction
- High Input PF0.99 to Unity
- Input THDi <5%
- Utility frequency independent
- pure sine Wave output
- Wide Input Voltage range
- Full time EMI/RFI suppression
- High Efficiency >93%
- Cold start capability
- Full function LCD Display to monitor electrical parameters
- Smart battery management
- Generator Compatibility
- Galvanic Isolation option
- Compact Design, Small footprint
- User Friendly features
- SNMP Interface - Web enabled monitoring
- Custom built - Long backup Models
- Parallel Redundant configuration
- Compliance to International standards



NUMERIC - No .1 UPS Manufacturer in India*

(*Source: Softdisk)



TECHNICAL SPECIFICATION

NUMERIC®

Digital HP Max Series

PARAMETER	5kVA / 4.5kW	6kVA / 5.4kW	7.5kVA / 6.5kW	10kVA / 9kW	7.5kVA / 6.5kW	10kVA / 9kW	15kVA / 13.5kW	20kVA / 18kW
MODEL	DHP Max 5000	DHP Max 6000	DHP Max 7500	DHP Max 10K	DHP Max 31 7K5	DHP Max 31 10K	DHP Max 31 15K	DHP Max 31 20K
Input								
Phase	Single Phase with Ground (L-N-G)				Three Phase with Ground (R -Y-B -N-G)			
Voltage Range	110 VAC - 276 VAC (Based on Load percentage)				190 VAC - 478 VAC (Based on Load percentage)			
Line low transfer	(0~50% : 110 V / 51~100% : 176 V) ± 3% Vac				(0~50% : 190 V / 51~100% : 305 V) ± 3% Vac			
Line low comeback	Line Low Transfer +15~20VAC (±3%)				Line Low Transfer +25~35VAC (±3%)			
Line high transfer	276 VAC (±3%)				478 VAC (±3%)			
Line high comeback	266 VAC (±3%)				461 VAC (±3%)			
Frequency Range	45-55 Hz / 55-65 Hz (50/ 60 Hz Auto sensing)							
Power Factor	0.99 to Unity (MP:230 V, FULL RCD LOAD) / 0.95 (above 25% Load)							
THDi	< 5% with full Load (1)							
Bypass								
Voltage Range	176 ~ 264 V (Default) can be adjustable 176 ~ 276 AC							
Line low comeback	Line Low Loss + 10 VAC							
Line high comeback	Line Low Loss - 10 VAC							
Frequency Range	45 - 55 Hz / 55 - 65 Hz							
Output								
Voltage	208 VAC ⁽²⁾ / 220 VAC / 230 VAC / 240 VAC				200 VAC ⁽²⁾ / 208 VAC ⁽²⁾ / 220 VAC / 230 VAC / 240 VAC			
Voltage Regulation	+ / - 1%							
Frequency	50/ 60 Hz +/- 0.1 Hz (Free Running Mode)							
Synchronization range	45 - 55 Hz / 54 - 66 Hz ⁽³⁾				46 - 54 Hz / 54 - 66 Hz ⁽³⁾			
Harmonic Distortion(THDv)	≤ 2% (linear load)				< 2% (linear load)			
	≤ 5% (non-linear load)				< 5% (non-linear load)			
Output Waveform	Pure sine wave							
Crest Factor	3:1							
Efficiency (AC - AC)	92% @ Full R Load (without isolation)				93% @ Full R Load (without isolation)			
Power Factor	0.9							
Overload	105%~125%: 10min/ 126%~150%: 1min/ >150%: 10Sec/ >170%: 1Sec				101%~109%: 5min / 110%~129%: 1min/ 130%~150%: 10Sec/ >150%: 2Sec			
Battery								
Battery Type	Sealed Lead Acid Maintenance Free, Lead Acid Tubular (Battery AH and Quantity depending on backup time)							
DC Voltage	240 VDC				288 VDC			
Charger	Built-in solid state three stage charger (constant current ,Constant voltage with float charge) and with Temperature Compensation.							
Transfer Time								
Line mode to battery mode	0 ms							
Inverter to bypass, ECO mode	0 ms							
Bypass to Inverter	0 ms							
ECO to Inverter mode	< 10ms When Bypass voltage or frequency is out of range							
Features								
ECO Mode	Yes							
Fan Speed Control	Yes							
EPO Function	Yes							
Frequency Converter Mode (Default)	Yes (derated to 60 % when the input source is 1phase) & Bypass output is Disabled							
Parallel function (Optional)	Up to 4 units							
General								
Operating Temperature	0 to 45°C							
Noise level	<55 dB @ 1 meter							
Display & Indication	User Friendly Dot matrix LCD Display							
	Input : Voltage & frequency Battery : Voltage & Level in % Internal DC Bus voltage & Internal temperature							
	Output : Voltage , frequency, current, power and Load Level in % UPS Status : Operating Mode / Warning / Fault / codes (faults & warnings)							
	UPS Setting : Output Voltage / Frequency/ Bypass Enable/ Disable/							
	Special function: (UPS/ CVCF/ ECO) Status LED, Normal Mode/ Load on Bypass/ System Fault							
Audible Alarm	Mains Failure alarm/ Low Battery alarm, UPS Warning, Overload, Fault & Bypass mode etc.							
Protections	Advanced electronic protection for device safety backed with MCBs fast acting fuses, High speed pulse blanking Electronic overvoltage/ undervoltage							
Connection	Terminal Block for input/ Battery & output ⁽⁴⁾				Terminal Block for input/ Bypass/ Battery & output			
Bypass	Static Bypass							
Maintenance Bypass Switch	Available							
Communication Interface								
Standard	RS 232/ USB port for software interface (any one can be used at a time)							
Intelligent slot	For SNMP (Optional)/ For AS400 (Optional)							
Dimension(mm) & Weight(kgs)								
Floor Model with Galvanic isolation	800 H x 320 W x 660 D 53 kg	800 H x 320 W x 660 D 56 kg	825 H x 320 W x 700 D 60 kg	825 H x 320 W x 700 D 70 kg	910 H x 350 W x 680 D 120 kg	910 H x 350 W x 680 D 140 kg	1180 H x 350 W x 650 D 165 kg	1180 H x 350 W x 650 D 175 kg

*Rack mount with Galvanic isolation Dimension available on request
*Rack mount without Galvanic isolation Dimension available on request

(1) : Source vTHD must be <2% (with nominal input voltage 230 V) (2) : Derate to 90% with 200 & 208 Vac output voltage

(3) : Output Frequency is synchronised with Bypass source. If Bypass source is failure the output frequency of UPS will go to free-run mode (4) : Bypass Source is internally looped with Input. Separate terminal can be provided as optional.

Product specifications are subject to change without prior notice

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