

NUMERIC®

HPE i 33 Series

10 kVA to 120 kVA





High Performance Power Protection UPS Systems

Features

- Flexible and adaptable
- IGBT Rectifier
- High Efficiency up to 94 % for On Line mode and up to 98 %for Eco Mode
- Compact footprint
- Intuitive monitoring
- High availability architectures
- Online / Frequency Converter / Eco and Intelligent Eco modes of operations
- Designed Load PF 0.9

NUMERIC - No. 1 UPS Manufacturer in India* (*Source: Softdisk)



HPE : 33 10-120 kVA

NUMERIC HPE i 33 10-120 kVA UPS is a true on-line 3/3 UPS System with VFI-SS-111 (Voltage and Frequency Independent) classification in compliance with IEC EN 62040-3 Standards that provides the user with clean power for continuous operation of critical load, regardless of any disturbance on the upstream AC power.



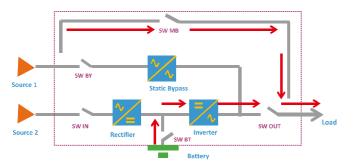
Main Features

NUMERIC HPE: 33 10-120 &VA is suitable for use in a broad spectrum of applications, thanks to variety of configuration, accessories and options providing flexibility and choice of performance levels:

- Input current distortion < 3%
- Input power factor 0.99
- Power walk-in function to guarantee a progressive rectifier startup.
- Load Power Factor 0.9 and suitable for powering capacitive loads, such as blade servers, without any reduction in active power (0.9 lead to 0.8 lag).
- Configurable Power Share connections to ensure backup for the most critical loads or programmed to operate only when mains power fails.
- Cold Start facility that starts the UPS even when it is not connected to the mains.

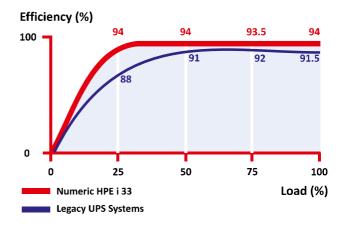
Operational modes

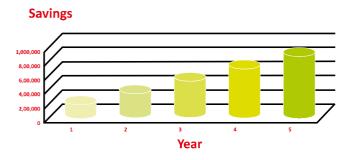
These systems can be set to operate in four operating modes: ONLINE/FREQUENCY CONVERTER/ECO and ECO MODES.



High Efficiency

High Operating efficiency up to 94% providing energy savings with constant efficiency from 25 to 100% load.



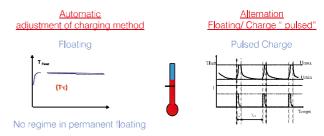


Using HPE 2 33 10-1204VA UPS Systems, there is a considerable savings as compared to the legacy UPS systems with a lower efficiency, not including costs saved on lower cooling requirements which is typically shown above over a 5 year period.

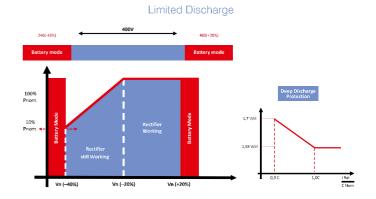
Battery Care System

The HPE: 33 Battery Care System consists of a number of functions that together Guarantee optimum battery performance such as the Intelligent charge and Limited discharge.

Algorithm of « intelligent » charge

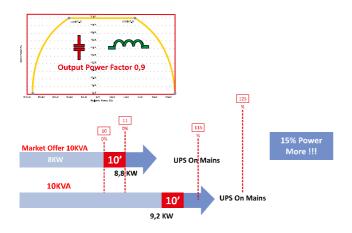


Advantage: Increases the battery life upto 50% and protects the investment on battery

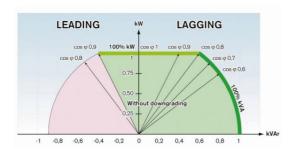


Power Availability

HPE : 33 10-1204VA are offered with output power factor of 0.9 providing up to 15 % more active power (kW) than a traditional UPS and more load expansion.



Designed to Support New IT Loads



The HPE à 33 10-1204VA range of UPS systems with Stable output voltage and Active power without de-rating, with loads with a lagging power factor and up to 0.9 leading. A high short-circuit capacity, up to 4 In, which facilitates the selection of protective devices for selectivity in the downstream distribution. Precise voltage even when the load between phases is completely unbalanced.

Flexibility and Easy to upgrade

Power requirements can change over time. HPE: 33 Outputs can be multiplied with the "Hot System Expansion" feature, which means that a new UPS can be added to the system while the integrated UPS will configure itself automatically with the system data without any disturbances to the load.

Transfer on Maintenance By Pass NOT REQUIRED!!! Load is safely Protected On Line Upgrading

Communication Options

HPE $\stackrel{\checkmark}{\sim}$ 33 is equipped with a graphic display that provides information, measures, status and alarms regarding the UPS Systems.

Advanced, multi-platform communication for all operating systems and network environments: PowerShield3 monitoring and shutdown software included, for Windows 2008, Vista, 2003, XP; Mac OS X, Linux, Novell and most popular Unix operating systems. Compatible with the Net monitoring system.

2 slots for the installation of optional communication accessories such as network adapters and volt-free contacts.

REPO (Remote Emergency Power Off) with which to power down the UPS through a remote emergency push button.

Input for connection of the auxiliary contact of an external manual bypass.

Input for synchronization from an external source.

Graphic mimic panel display for remote connection.

SNMP compatible & RS485 JBUS/MODBUS Communication.

Man machine interface

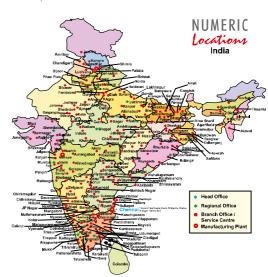
Large Communication Mimic panel and flexible man machine interface.



Support:

Wide Sales & After Sales Support Network with:

- 13 Regional Offices
- Over 258 Service Centres across India
- Over 900 Field Support Team
- 24 x 7 x 365 Help Desk



Power	10		0.0	0.0	40	00	0.0	400	400	
kVA	10	15	20	30	40	60	80	100	120	
KW	9	13.5	18	27	36	54	72	90	108	
Topology			Tri	ue On -l ine Do	ouble Convers	sion (VF I- SS -III))			
Input (AC Supply) Rectifier type				IODT have	J DF t II	- 4 416				
		IGBT based PF controlled rectifier								
Voltage		380 / 400 / 415 V TP + N (selectable)								
Voltage range	320 - 480V at 100% load									
	240 - 480V at 50% load									
Frequency		50 / 60Hz ± 10%								
Input power factor		> 0.99								
THDi		< 3%								
Power Walk-in		Programmable from 5 - 30 sec								
Bypass Frequency Tolerance		± 5% (adjustable from 0.25 to 10%)								
Output										
Voltage										
Static Regulation		± 1%								
Dynamic Regulation		± 3%								
Frequency		50 / 60 Hz								
Frequency Range		0.25 to 10% adjustable								
THDu		< 1% for 100% linear load								
		< 3% for 100% non - linear load								
Crest Factor					3:1					
Overload @ 0.8 P. F.		115% for Continuous, 125% for 10min								
		150% for 60 seconds								
		168% for 5 seconds								
Overall Efficiency										
On-line Double Conversion Mode			upto 94.0%				unto	93.5%		
Eco Mode			upto 54.070		> 98%		upto	30,070		
					> 90%					
General Storage temperature				neo.	in to 1 EE of	(LIDC)				
Storage temperature		- 25° up to +55 °C (UPS)								
Ambient temperature		0 to 40°C								
Relative Humidity		95% Max non-condensing)								
Operating Altitude		1000m without de-rating								
Colour		RAL 7016								
Noise Level			48 -	52 dBA at 1 i	meter			<70dBA a	at 1 meter	
Paral iel ing										
Modular					Upto 6 Units					
Standards										
Safety		IEC 62040-1-2								
EMC		I EC 62040 - 2								
Design					IEC 62040-3	}				
Enclosure Protection				IP 20	(others on re	quest)				
Marking					CE					
Communication Options				RS 232 pc	orts for remot	te contacts				
		Slots for Communication Interface for SNMP & BMS integration								
Dimensions							J			
Width x Depth x Height (in mm)		440 x 850 x 1320 500 x 850 x 1600 750 x 855 x 1900								
Weight (kgs) with Transformer Option	175	195	215	260	315	000 A 000	. 1000	100 x 00	5 X 1500	
			4 I U	200	UU					

Note: As standards, specifications and design change from time to time, please ask for confirmation of the information given in this publication.

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