

# Eaton 9145 UPS



1-3 kVA

## Product Snapshot

<b>Power Rating</b>	: 1 kVA - 3 kVA at 0.8pf 6 kVA - 20 kVA at 0.9pf
<b>Configuration</b>	: Tower
<b>Voltage</b>	: 220V
<b>Frequency</b>	: 50/60 Hz (auto-sensing)
<b>Technology</b>	: High-frequency double conversion

## Features

- Robust design and on-line double conversion topology assures maximum reliability
- Wide input-voltage range appropriate for the harshest electrical environments
- 0.9 output power factor on 6-20kVA models
- Automatic bypass for fault-tolerance
- Cold start on battery power enables portability
- XL models for long runtime performance
- Adjustable battery quantity optimises sizing
- Intuitive front-panel LCD user interface for consistent status indication
- Inbuilt RS-232, USB & Intelligent Slot communication ports
- WINPOWER software suite bundled

## Reliable High Performance Power Protection for Critical Applications

### Robust design

The 9145 double-conversion online UPS from Eaton affordably protects mission-critical applications from downtime, data loss and corruption. Its robust design enables it to operate in harsh physical and electrical environments. Its input is optimised to operate with very wide input-voltage range, reducing the number of transfers to battery power and is perfectly compatible with engine generator sets. An internal over-voltage cut-out device fitted to 1-3 kVA models automatically isolates the UPS from extremely high input voltage, protecting the UPS and your critical loads.

### High performance and reliability

The 9145 uses high frequency technology to bring its users a compact UPS that delivers perfect sine wave output. Multi power strategies are available to suit varying applications and requirements: ECO mode to reduce energy consumption, converter mode to supply stable output and online mode to ensure highest system availability. Class leading energy efficiency of up to 98% in ECO mode and 94% in online mode reduces consumption and heat dissipation. An output power factor of up to 0.9 on 6-20 kVA models provides 28% more power than competitive products.

Intelligent dynamic paralleling technology in the 6-20 kVA systems provides flexibility and enhanced reliability by enabling parallel connection of systems for increased capacity or redundancy.

### Manageability

A user-friendly graphic LCD provides convenient access to UPS parameters, operating information and user settings. Multiple communication ports, including RS232, USB and Emergency Power Off enable easy interfacing to IT, monitoring and safety systems. An intelligent slot adds further communications capability via Ethernet, RS485 or dry contacts through the use of optional communications cards.



6-20 kVA



Powering Business Worldwide

# Eaton 9145 UPS Technical Specifications

Model Numbers: Watts/VA	800W/1000VA		1600W/2000VA		2400W/3000VA		5400W/6000VA		9kW/10kVA		9kW/10kVA		13.5kW/15kVA		18kW/20kVA			
Standard Model (Internal Battery)	9145 1000in		9145 2000in		9145 3000in		9145 6Kin		9145 10Kin									
XL Model (Large Charger+ External Battery)	9145 1000in XL		9145 2000in XL		9145 3000in XL		9145 6Kin XL		9145 10Kin XL		9145 10KXL 31		9145 15KXL 31		9145 20KXL 31			
<b>Input/Output</b>																		
Nominal Input Voltage	208/220/230/240VAC						208VAC/220VAC/230VAC/240VAC											
Input Voltage Window	110~300VAC						110VAC~276VAC											
OVCD	Inbuilt						-											
Input Power Factor	0.99						0.99											
Frequency Range	45-55Hz / 54-66Hz						45-55Hz / 54-66Hz											
Phase	Single Phase with Ground						Single phase with Ground				Three phase with Ground (Combo)							
THDI	< 5% with full load						< 5% with R full load											
Power Factor	0.99						>0.99@R full load											
Voltage	220/230/240VAC						208VAC/220VAC/230VAC/240VAC											
Voltage Regulation	<2%						< 1%											
Frequency (Synchronized Range)	45-55Hz/54-66Hz						45-55Hz/54-66Hz											
Frequency (BAT Mode)	50/60Hz±0.05Hz						50/60Hz±0.05Hz											
Current Crest Ratio	3:1						3:1											
Harmonic Distortion	<3% THD (Linear Load)						2% @Linear Load											
	<5% THD (Non-Linear Load )						5% @Non-Linear Load											
Output Waveform	Pure Sine Wave						Pure Sine Wave											
Overload Capacity	1min @105%~110% load 30s @110%~125% load						2min @105%~125% 30s @125%~150%				5min @100%~110% 1min @110%~130%							
Input Connection	C14 10A		C20 16A		C20 16A		Hardwired											
Output Connection	(4) IEC C13 10A		(6) IEC C13 10A		(6) IEC C13 10A		Hardwired											
Parallel							Yes, Upto 2 Units											
<b>Battery</b>																		
Number of Batteries	3		8		8		20		20									
Battery Quantity/Type (Standard)	3x12V(7Ah)		8x12V(7Ah)		8x12V(7Ah)		20x12V(7Ah)		20x12V(9Ah)									
Battery Quantity XL	3x12V		8x12V		8x12V		20x12V		20x12V		24x12V		24x12V		24x12V			
Backup Time	>5 minutes		>5 minutes		>5 minutes		>5 minutes		>5 minutes									
Recharge Time to 90% Capacity							5 hours											
Charging Current	8A						4A											
<b>User Interface</b>																		
Visual	LCD Display with measurements(Input/Output/Bypass V & Hz,battery Voltage & % capacity, remaining time and level indicator,Load% and level indicator,alarm codes)																	
Control	4 buttons for 1-3kVA (on/off,select,enter,mute)						4 buttons for 6-20kVA (esc,up,down,enter)											
<b>Communications / Management</b>																		
Power Management Software	Winpower Power Management Software, included in CD																	
Connection Type	USB						Standard RS232+USB											
SNMP Interface/ AS 400 Card	Intelligent slot for optional SNMP Card/AS400/Modbus Card																	
<b>Environment</b>																		
Operating Temperature	0-45° C						0-40° C											
Humidity	20 ~ 90% (No condensing)						0 ~ 95% (No condensing)											
Noise Level	<50dB @ Front 1 meter						<50dB @ Front 1 meter				<55dB @ Front 1 meter							
Standards	ROHS																	
Safety	IEC 62040-1																	
<b>Dimensions &amp; Weights</b>																		
Dimension – Standard/XL Models (WxHxD mm)	145 x 220 x 400		192 x 347 x 460				260 x 708 x 550				350 x 650 x 890							
Weight – Standard Models (Kgs)	13		31		31		80		84									
Weight – XL Models (Kgs)	7		13		13		25.5		29.5		48.1		58.1		58.1			

In the interest of continuous product improvement, all specifications are subject to change without notice.

\*Runtimes are approximate and may vary with equipment, configuration, battery, age, temperature etc.

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