

Eaton DX-RT

10kVA/10kW 1x1 (EBM Model) UPS

Manufacturer's declaration in accordance with IEC 62040-3



Value Proposition:

High Performance

- kVA=kW.
- Rack and Tower Convertible
- Form Factor 2U with <600 mm Depth.
- True Input PF 0.99
- True output Unity PF 1.
- Input THDi 3%.
- Output THDv 1%.
- Higher Power Density.
- Higher Efficiency upto 95%.
- Support Critical Virtualization.

High Reliability and Adaptability

- Wide Input Voltage Range
- Inbuilt Hardware Current Limit Technology.
- Upgraded Phase Lock Algorithm
- Inbuilt Over-voltage Cut-off Device
- Inbuilt Over Temperature Protection.
- Upto 50 Degree Celsius operation @50% Load (Specific to XL Model)
- Better Overload Protection upto 105% Constant

High Flexibility and Availability

- Adjustable Battery Voltage 192 Vdc-240 Vdc.
- Adjustable Charging Current 0 A-4.0 Amps
- Parallel Operation upto 3 UPS's.
- Better Short Ckt Handling Capacity.
- Auto Fault Recovery.
- Inbuilt Maintenance Bypass Switch.
- Conformal Coated Boards.
- PDU and MBS 2-in-1 kit support easy maintenance.
- More Accessories.



Powering Business Worldwide

Model Name	DXRT10K-IN
Catalog Name	DXRT10K-IN
Plant Part Number	9104-32686XT1
UPC Code	743172091697
INPUT	
-Acceptable Input Voltage	110VAC~275VAC
-Phase	Single phase with ground
-Input voltage range to take 50% load	110VAC~275VAC
-Input voltage range to take 100% load	160VAC~275VAC
-Inrush Current Limit	8*I _{ms}
-Input Power Factor	≥0.995
-Input Frequency Range	45-55Hz / 54-66Hz (extendable to 40~70HZ when load < 60%)
-Input protection	upstream breaker
-Generator Set	1.5 x UPS Rating Power
OUTPUT	
-Power(VA) max	10000
-Power(W) max	10000
-Power Factor	1.0
-Waveform	Pure sine wave
-Nominal voltage	208V/220V/230V/240V
-Voltage Variation	± 1 %
-Voltage distortion	< 1% THD@ linear load
	<5% @non-linear load
Output Frequency	
-Synchronization range	45-55Hz / 54-66Hz (extendable to 40~70HZ when load < 60%)
-Slew rate	1 Hz/s
- Battery mode	(50/60±0.1) Hz
Transfer Time	
-Inverter Mode ↔ Battery Mode	0ms
-Battery Mode ↔ Inverter Mode	0ms
-Inverter Mode → bypass Mode	0ms
Full Load Efficiency	
-Line mode with battery full charged	95% @ 230V output with typical load
-ECO mode	≥98%

Overload Capability	
-Line mode	100%<Load≤105%: Constant
	105%<Load≤125%: 10 minutes
	125%<Load≤150%: 30s
	>150% :500ms
-Battery mode	100%<Load≤105%: Constant
	105%<Load≤125%: 1 minutes
	125%<Load≤150%: 30s
	>150% :500ms
-Bypass Mode	105%<Load≤125%: Constant
	125%<Load≤150%: 30s
	Load>150%: 500ms
BATTERY	
-Inner Battery Rating/Type	12V/9AH*16 (16/17/18/19/20 adjustable)
-External battery connection	Connector
-Back-up Time (50% load)	8 minutes typical
-Back-up Time (70% load)	5 minutes typical
-Back-up Time (full load)	2.1 minutes typical
-DC Voltage	192VDC (192V~240V adjustable)
-Battery-Low Voltage	11.4V/pc @ 0~25% Load
	10.5V/pc @ >25% Load
-Battery Shutdown Voltage	10.5V/pc @ 0~25% Load 9.6V/pc @ >25% Load
-Leakage current	<300uA
-Battery fuse current	100A
Charger	
-Charger current	default 2A (0~4A adjustable)
-Floating Voltage Phase	13.65V/pc
-Charging time	3 hours to 90% with internal battery
Features	
-ECO Mode	YES
-Battery Capacity Calculation	YES
-Fan Speed Control	YES
-Frequency Converter Mode(CVCF)	YES, 60% load
-Maintenance Bypass Switch	factory optional
-Parallel	optional (up to 3 units)
INDICATOR & ALARM	
-Display	Multi-language LCD + status LED
-Battery mode	Beeps every four second
-Battery low	Sounding every second
-Overload	Sounding twice every second
-Fault	Continuous beeping
INTERFACE	
-RS232	YES
-USB	YES
-EPO Function	YES
-Comm slot box	YES
-Comm card	Optional(NMC/Moudbus/Dry Contact)
-Dry Contact (Dry in/Dry out)	YES
-Input connection	TB
-Outlet socket	TB

MECHANICAL	
-WxHxD(mm)	438* 86.2* 573
-Net weight (Kg)	14.7
-Wheels	NO
ENVIRONMENTAL	
Operating Temperature Range	0°C ~ 40 °C (40~50°C 50% load)
Relative Humidity	0 ~ 95% (No condensing)
Audible Noise(>75% load, charger current >2A)	≤60dB
Audible Noise(>75% load, charger current <2A or 50%~75% load, charger current > 2A)	≤55dB
Audible Noise(50~75% load, charger current <2A or 25%~50% load, charger current > 2A)	≤50dB
Audible Noise(25~50% load, charger current <2A or 0%~25% load)	≤45dB
REGULATIONS	
-ESD	IEC 61000-4-2 Level 3
-RS	IEC 61000-4-3 Level 3
-EFT	IEC 61000-4-4 Level 4
-Surge	IEC 61000-4-5 Level 4
-Conduction	IEC 62040-2 Category C3
-Radiation	IEC 62040-2 Category C3
-Safety	CE
-Transportation	ISTA 1H
-Protection	IP20 (static)
-Performance classification	VFI-SS-111
ACCESSORIES	
-User manual	Yes
-feet	Yes



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