

Eaton DXRT UPS (15 kVA - 20 kVA)

# Robust, Reliable, Efficient

Power Management Solutions for Mission-Critical Application



**EATON**

*Powering Business Worldwide*



Best in Class Efficiency

**96.1%**

Double conversion efficiency  
40°C without de-rating  
Form Factor 3U

Best in Class Footprint

**98.8%**

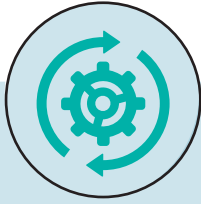
Efficiency in Economy Mode  
Transfer Time = 2ms

## Key Features

- IGBT Based Rectifier True Online Double Conversion
- Power module: 15-20 kW @ Unity PF
- Versatile wiring system
- Active Input Power Factor Correction
- Inbuilt UPM & battery modules in the same modular chassis
- Parallel N+1 redundancy
- Flexible charge of 13 Amps with ABM & CC mode
- Touch screen display
- UL & IEC cybersecurity certified network management card

## Key Applications

- Networking & server equipment
- Bio-Metrics/Radiology and medical equipment
- Industrial manufacturing
- Security and surveillance
- System/CCTV and CAMERA
- Printer/IT-Load and PC's



## PERFORMANCE

### Full Range O/P PF

- True Input PF 0.99
- True Output PF 1.0
- Delivers 11% More Power

### High Efficiency

- 96.1% in Online

### Perfect I/O

- **3%** Input THDi
- **1%** Output THDV
- **8\*Irms** Input Inrush current limit



## RELIABILITY

### Enhanced materials

- Double layer FR4 material PCBA

### High design margin

- Hot-Swappable power module
- No **Output power derating**
- Wide Input Voltage Range **100 - 300 Vac**
- Inbuilt **Scalable power module**
- Inbuilt **Over Temp Protection**
- Better Overload Protection



## AVAILABILITY

### Highly Availability

- High **Short CKT** Clearance
- Auto **Fault** Recovery

### Conformal Coated Board

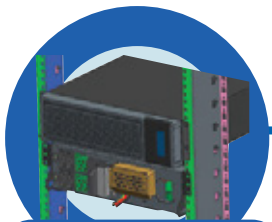
- Automatic coating process
- Blue ray detection

### Adjustable charger

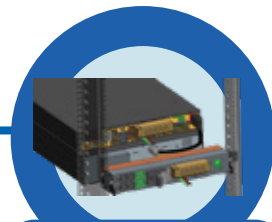
- Set Charger as per requirement
- Flexible Battery System

## MBS and PDU 2-in-1 kit

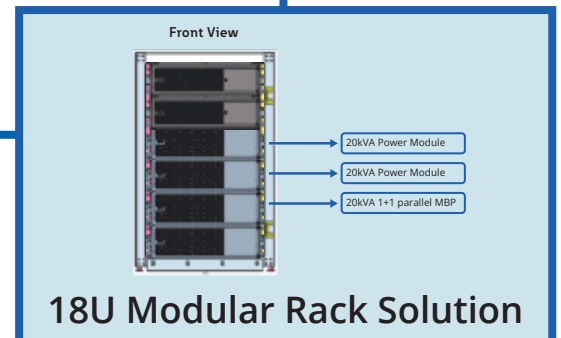
- **Do NOT occupy U** space in rack installation
- Compatible with both standard model and long backup time model
- **Easy for UPM maintenance** in rack installation
- Can be installed in the front of rack for some specific application need
- Retention clips fix the equipment power cord firmly



UPM + PDU 2 in 1 kit  
Installation Front Facing



UPM + PDU 2 in 1 kit Rack  
Mount Back Side Installation



18U Modular Rack Solution

## Technical Specification sheet of Eaton DXRT UPS (15 kVA - 20 kVA)

UPS Power Module	DXRT UPS 15 KVA	DXRT UPS 20 KVA
<b>Input Characteristics</b>		
Rated input voltage	1 phase 220/230/240 V; 3 phase 380/400/415V	1 phase 220/230/240 V; 3 phase 380/400/415V
Input voltage range	160V~300V full load; 100~160V liner derating	160V~300V full load; 100~160V liner derating
Rated input frequency	50Hz / 60Hz	50Hz / 60Hz
Input frequency range	40Hz – 70Hz	40Hz – 70Hz
Input frequency phase lock range	50Hz system : 45 Hz – 55 Hz ; 60Hz system : 54 Hz – 66 Hz	50Hz system : 45 Hz – 55 Hz ; 60Hz system : 54 Hz – 66 Hz
System compatibility	TN-S / IT	TN-S / IT
Input Power Factor	>0.995 both 1 phase and 3 phases	>0.995 both 1 phase and 3 phases
THDi	≤3% linear load; ≤5% non-linear load	≤3% linear load; ≤5% non-linear load
Input protection	upstream breaker	upstream breaker
Generator Set	1.5 x UPS Rating Power	1.5 x UPS Rating Power
<b>Output Characteristics</b>		
Input-output phase connection	Input-output 3-1, 3-3, 1-1	Input-output 3-1, 3-3, 1-1
Rated output voltage	1 phase 220/230/240 V; 3 phase 380/400/415V	1 phase 220/230/240 V; 3 phase 380/400/415V
Rated output frequency	50Hz / 60Hz	50Hz / 60Hz
Synchronization range	45-55Hz / 54-66Hz (extendable to 40~70Hz when load < 60%)	45-55Hz / 54-66Hz (extendable to 40~70Hz when load < 60%)
Rated output appearance power	15KVA	20KVA
Rated output active power	15KW	20KW
Power Factor	1.0	1.0
Waveform	Pure sine wave	Pure sine wave
Voltage Variation	± 1 %	± 1 %
Voltage distortion	≤1% linear load; ≤3% non-linear load	≤1% linear load; ≤3% non-linear load
Load crest factor	≥3:1	≥3:1
<b>Full Load Efficiency</b>		
Line mode	96%	96%
ECO mode	Upto 98.8%	Upto 98.8%
<b>Overload Capability</b>		
Line mode	105% < Load 125% : 10min 125% < Load 150% : 1min >150% : 0.5s	105% < Load 125% : 10min 125% < Load 150% : 1min >150% : 0.5s
<b>Battery &amp; Charger</b>		
Internal Batteries	None. 2 x EBMs as minimum to provide backup time	None. 2 x EBMs as minimum to provide backup time
Max. quantity	6 pairs (2*6)	6 pairs (2*6)
Battery voltage	±240V (adjustable to ± 192V, use with correct battery)	±240V (adjustable to ± 192V, use with correct battery)
<b>Charger</b>		
Charger current	0~13A adjust	0~13A adjust
Recharging time	3 hours to 90% (2 EBM)	3 hours to 90% (2 EBM)
CVCF(constant voltage and constant frequency)	No derating at 3-3, 3-1 mode; Derating to 60% at 1-1 mode	No derating at 3-3, 3-1 mode; Derating to 60% at 1-1 mode
<b>Features</b>		
ECO Mode	YES	YES
Battery Capacity Calculation	YES	YES
Fan Speed Control	YES	YES
Parallel	maximum 3	maximum 3
<b>Indicator &amp; Alarm</b>		
Display	Multi-language LCD + status LED	Multi-language LCD + status LED
Battery mode	Beeps every four second	Beeps every four second
Battery low	Sounding every second	Sounding every second
Overload	Sounding twice every second	Sounding twice every second
Fault	Continuous beeping	Continuous beeping

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Interface		
Display	Coloured touch LCD with gravity sensor	Coloured touch LCD with gravity sensor
Connectivity port	RS232 DB9; USB 2.0 type-B; programmable dry contacts in/out; 1 x Mini-Slot for comms cards	RS232 DB9; USB 2.0 type-B; programmable dry contacts in/out; 1 x Mini-Slot for comms cards
Mechanical		
UPM HxWxD (mm)	129mm*438mm*589mm	129mm*438mm*589mm
UPM weight (Kg)	23.7	23.7
EBM HxWxD (mm)	129mm*438*589mm	129mm*438*589mm
EBM weight (Kg)	124.2	124.2
MBP (Maintenance Bypass)		
Dimension (H*W*D)	129mm*438*589mm	129mm*438*589mm
Weight (Kg)	21.5	21.5
Environmental		
Operating Temperature Range	0°C ~ 40 °C (40~50°C 50% load)	0°C ~ 40 °C (40~50°C 50% load)
Relative Humidity	0 ~ 95% (No condensing)	0 ~ 95% (No condensing)
Audible Noise	≤55dB	≤60dB
Operating altitude	0 ~ 4000m (0 ~ 1000m no derating, 1000m ~ 4000m the load derating 1% every up 100m)	0 ~ 4000m (0 ~ 1000m no derating, 1000m ~ 4000m the load derating 1% every up 100m)
Regulations		
Certification	IEC 62040-2 / IEC 61000-4	IEC 62040-2 / IEC 61000-4
Safety	CE	CE
Protection	IP20 (static)	IP20 (static)
Performance classification	VFI-SS-111	VFI-SS-111



12 Acres

World - class Manufacturing Facility in Pondicherry

# About **EATON**

Eaton's mission is to improve the quality of life and the environment through the use of power management technologies and services. Eaton provides sustainable solutions that help its customers effectively manage electrical and mechanical power – more safely, more efficiently, and more reliably. Eaton's 2023 revenues were \$23.2 billion, and the company sells products to customers in more than 175 countries. Eaton has approximately 85,000 employees. Eaton firstly established a presence in the Asia Pacific region during the 1970s. Since then, the company's presence has grown significantly with a fast-growing network of sales and marketing offices, manufacturing plants, service centers and research facilities in the region.

Today, we have nearly 17,000 employees, 6 R&D centers and manufacture in 34 manufacturing facilities in countries and regions including China, India, Japan, South Korea, Singapore, Indonesia, Thailand, Philippines and Australia for all of Eaton's distinct business.

Eaton Power Quality Private Limited, India is a 100% subsidiary and a part of electrical sector of Eaton Corporation. We are catering to every industrial segment with versatile solutions which includes Switchgear: LV & MV Solutions, Fusegear: LV & MV solutions, UPSs and software solutions.

Operating in  
**175**  
countries

**85,000+**  
employees

**100+**  
years of  
experience

**\$23.2**  
BILLION IN  
SALES 2023

**18,000+**  
patents