

New Eaton DXRT 15KVA/20KVA UPS

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EATON

Powering Business Worldwide

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The new Eaton DXRT 15K/20K UPS provides stable power for critical IT infrastructure, Industrial, Manufacturing and Medical devices. With advanced technology to improve the double conversion efficiency and reduce footprint, saving both cost and rack space. Eaton's DXRT product with it's robustness in design for hash environments. or applications outside of a comms rooms.



IT infrastructure (High-density Racks)



Industrial & Manufacturing



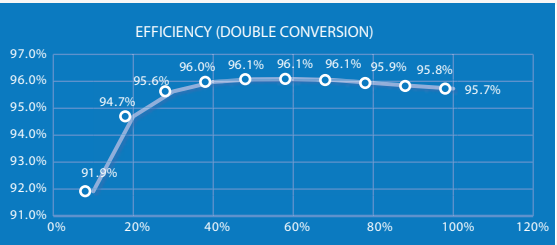
Medical Applications

Key feature



High efficiency

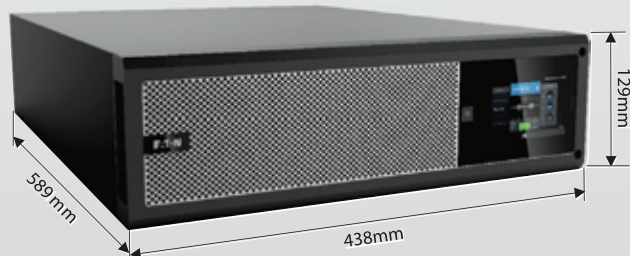
Double conversion efficiency up to 96%.



DXRT reduces energy usage & CO2 emissions to help IT Managers save costs on power and cooling.

High power density

- The 15KVA/20KVA power model is only 3U rack space.
- Short depth chassis suitable to be deployed in cabinets as shallow as 800mm deep.
- 438mm width for standard 19" rack mounting.



DXRT reduces space with same power rating.

High power factor

Unity power factor $VA=Watt$

Powers more servers than similar UPSs with equivalent VA ratings with lower power factors.

Versatile installation

Can be easily deployed as a rack mount or free standing (tower) unit.



Versatile wiring

Wide a rray of electrical environment.

Input and output wiring can be connected as 3 phase or 1 phase.

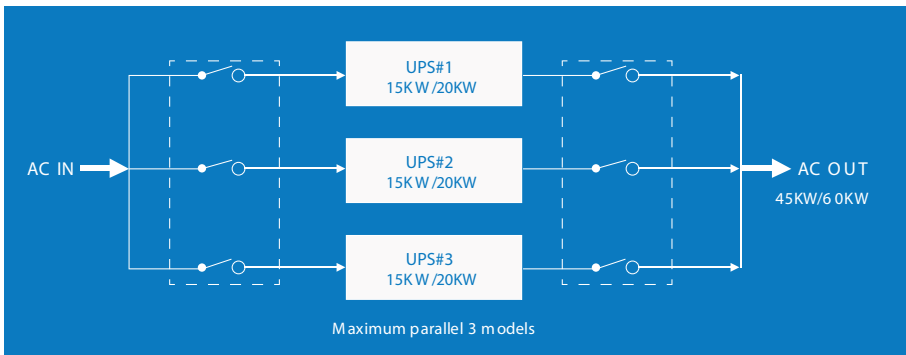
3-3, 3-1, 1-1 mode

Utility input and bypass input can be connected as single source or separated source.

All wiring modes catered for by a single SKU. Modes are changed by use of copper jumpers provided.

Parallel operation

For redundancy and expanded power rating.



ESS mode

Achieve up to **98.8%** efficiency in ESS mode. System switches to online mode on demand in less than 2ms response time.

Battery management

Eaton's exclusive ABM® technology increases battery service life by 50%. ABM uses an advanced, three-stage charging technique and closely monitors battery health to provide advanced notice when batteries need replacement.

Variable charging current ranges from 0-13A, suitable for recharging larger battery banks.

Endure harsh environment

Operation tempera ture up to 50 °C.

Maximum operation alti tude up to 4 000m.

Line mode overload capacity up to 10min at 125% rated load.

Professional HMI for operation, configuration and setting

Multi connectivity port – RS232, USB, dry in/out, EPO, intelligent slot.



Large coloured touch screen LCD

Built-in gravity sensor that automatically rotates the screen based on UPS deployment orientation.



Intelligent Power Management Software

IPP/IPM compatible with all major OS including virtualization so ftware su ch as VM ware and Hype r-V.



Product accessories

MBP (maintenance bypass model)

Integrated maintenance bypass and load segment.

Load segment control enables prioritized shutdown of nonessential equipment to maximize battery runtime for critical devices.



Paralleled systems require 1 x MBP per UPS module.

MBP20KPARA (Paralleling module) available for ease of deployment of a 2-UPS paralleled system.



EBM

Connect up to 6 pairs (2*6) of EBM's for extended runtime. Minimum deployment is 2 x EBM's per UPS, with increments of 2s.



Connectivity card



Net work-M2
Giga bit network card.



INDG W-M2
Giga bit Modbus card.



EMP DT1H1C2
Environmental module.
Monitors temperature and humidity.



Technical specifications

UPS power module	DXRT15KPM		DXRT20KPM
Input			
Rated input voltage	1 phase 220/230/240 V; 3 phase 380/400/415V		
Input voltage range	160V~300V full load; 100~160V liner derating		
Rated input frequency	50Hz/60Hz		
Input frequency range	40 Hz– 70 Hz		
Input frequency phase lock range	50Hz system:45 Hz– 55 Hz; 60Hz system:54 Hz – 66 Hz		
System compatibility	TN-S / IT		
Input power factor (PF)	>0.995 both 1 phase and 3 phases		
THDi	≤3% linear load; ≤5% non-linear load		
Output			
Input-output phase connection	Input-output 3-1, 3-3, 1-1		
Rated output voltage	1 phase 220/230/240 V; 3 phase 380/400/415V		
Rated output frequency	50Hz/60Hz		
Rated output appearance power	15KVA	20KVA	
Rated output active power	15KW	20KW	
Max PF	1		
Voltage variation	±1%		
THDV	≤1% linear load; ≤3% non-linear load		
Load crest ratio	≥3:1		
Output connection	Terminal block		
Overload capacity line mode (at rated voltage)	105%< Load≤125%: 10min 125%< Load≤150%: 1min > 150% :0.5s		
Battery and charger			
Internal Batteries	None. 2 x EBM's as minimum to provide backup time.		
Max. quantity	6 pairs (2*6)		
Battery voltage	±240V (adjustable to ±192V, use with correct battery)		
Charging current	0~ 13A adjust		
Recharging time	3 hours to 90% (2 EBM)		
Efficiency			
Online mode	up to 96%		
ECO or ESS mode	up to 98.8%		
Other working mode			
CVCF(constant voltage and constant frequency)	No derating at 3-3, 3-1 mode; Derating to 60% at 1-1 mode		
Parallel mode	maximum 3		
Interface			
Display	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		

Technical specifications

UPS power module	DXRT15KPM	DXRT20KPM
Physical dimension		
Dimension (H*W*D)	129mm*438mm*589mm	
Net weight (Kg)	23.7	
Environment		
Operation tempera ture	0℃ ~ 50 ℃ (0~40 no derating , 40℃~ 50℃ derating to 50%)	
Storage tempera ture	-25℃~60℃	
Relative humidi ty	0 ~ 95%	
Operating altitude	0~4 000m (0~ 1000m no deratin g, 1000m~4 000m the load derating 1 % every up 100m)	
Noise level	≤55dB	
Warranty	2 years	
Certification		
Sa fety	CE/TLC/ RCM	
Energy s aving	CQC	
EBM		
Dimension (H*W*D)	129mm*438*589mm	
Net weight (Kg)	124.2	
MBP (maintenance bypass)		
Dimension (H*W*D)	129mm*438*489mm	
Net weight (Kg)	21.5	

Part number

Model	DXRT15K	DXRT20K
Product description	Part number	
UPS p ower module for ANZ	DXRT15KPM AU	DXRT20KPM AU
External ba ttery module 480V	DXRTEBM480 RT6U	
MBP simple version	MBP20K	
MBP s tandard version	MBP20KPDU	
MBP 1+1 parallel version	MBP20K PARA	
New ne twork card	Network-M2	
Modbus card	INDG W-M2	
Environment detection card	EMPDT1H1C2	

Backup time table

EBM quantity	Load	Backup time(Min) - 15k VA	Backup time(Min) - 20k VA
1 group (2*240V EBM)	100%	3.8	2.4
	75%	5.7	3.8
	50%	9.5	9.6
	25%	23.5	24.9
2 group (2*2*240V EBM)	100%	13.8	8.5
	75%	20.7	13.8
	50%	35.1	25.4
	25%	91.0	65.6
3 group (3*2*240V EBM)	100%	26.3	17.0
	75%	39.4	26.3
	50%	68.1	42.9
	25%	179.3	98.7
4 group (4*2*240V EBM)	100%	39.8	25.1
	75%	59.6	39.8
	50%	104.3	67.2
	25%	277.8	133.0



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