



EPower

10KVA - 500KVA 3:3 Phase

Online Transformer-based UPS

High output power factor 0.9



LOCAL AREA NETWORKS (LAN)



SERVERS



DATA CENTRES



TELECOM-MUNICATIONS DEVICES



E-BUSINESS (Servers Farms, ISP/ASP/POP)



INDUSTRIAL PROCESSES



INDUSTRIAL PLCs



ELECTRO-MEDICAL DEVICES



EMERGENCY DEVICES (Lights/Alarms)

Highlights

- True online double conversion
- Double DSP control
- High output power factor 0.9
- Strong environmental adaptability
- Intelligent battery management
- N+X parallel redundancy, up to 6 units
- Power walk in design
- Compatible with the generator
- LBS synchronization
- Comprehensive and reliable protection
- EPO function
- ECO mode for energy saving
- Dual input source
- Common battery bank (Optional)
- Cold start function (Default for <200kVA)
- Energy backfeed protection device (Optional)
- With Input/Output/Bypass/Maintenance Bypass breaker
- Over-voltage/under-voltage protection
- Over-frequency protection
- Over-current protection
- Over-voltage protection for bus bar
- Over-temperature protection
- Output overload protection
- Output short-circuit protection
- Emergency power-off
- Input phase reverse protection
- Battery reverse connection protection
- BCN Battery monitoring system (optional)



FEATURES

Online double conversion

• Online Double Conversion design helps to output a pure sine wave, which is immune from the UPS input, so that the load can run steadily.

• UPS transfers among different working mode without output interruption, thereby powering the load uninterruptedly.

Full DSP control

• Double DSP control makes the whole system more stable and reliable.

High power factor

• The output power factor up to 0.9 better matches the load.

• The input power factor 0.97 with filter helps to improve the efficiency, reduce the harmonic pollution to the Grid and lower the UPS running cost.

Optimized battery management

• Intelligent battery management system and advanced battery auto float/boost charge technology, reduces the frequency of battery maintenance, greatly improves the battery efficiency and extends battery life.

• Battery discharge time prediction: The system will display the backup time of battery calculated by discharge current and voltage.

• Battery self-test: Battery is automatically tested as regular intervals.

• Flexible battery voltage configuration

N+X parallel redundancy

• N+X parallel redundant design, up to 6 units available, makes the configuration more flexible.

• Any unit in parallel system fails, the faulty one will automatically cut off the output, and the load will be powered by the remained unit.

Your choice of power protection



BCN UPS @btconnect BCN UPS

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Display Panel (optional)



LCD TOUCH SCREEN 7 INCH



LCD DISPLAY PANEL 4.7 INCH

Battery Monitoring System(optional)



24/7 Peace of Mind. Instant Alerts for Battery Failure.

- It is easy to configure the parallel system just by connecting the parallel cables and doing proper settings.

- Non-fixed Master-Slave relationship: Among several UPS in parallel, the unit startup first is Master UPS, the others are Slave. The master and slave may be exchanged.

Wide input adaptability

- The range of AC input voltage is (380/400/415Vac)(-25%/+20%), minimizing transfer to battery mode, thereby greatly prolonging the battery life.

- Wide input frequency ranging from 45Hz to 65Hz, ensures stability of UPS while generator connected.

Power walk in

- Specially designed power walk in function, in which rectifier of each unit in parallel system will be turned on in sequence at intervals to avoid the sudden load on the generator, thereby reducing the cost of the generator required.

Generator mode

- Set the maximum output power of the generator when a smaller one than needed is employed to extend the battery duration time. In this case, the load is supplied by both the generator and battery.

LBS synchronization

- Synchronize the output of the two independent UPS systems (Single unit or parallel) even when the two systems are operating on different modes (Bypass/Inverter) or on battery.

Multi-protection

- Self-diagnosis function will take place before start-up for safety.
- Multi-protection: AC input under/over voltage, overload, short-circuit, over-current, over bus voltage, overtemperature, fan failure, auxiliary power failure, battery under voltage, battery over-charge and so on.

EPO function

- A concave red EPO button with transparent cover is embodied in the LCD control panel for emergency power off.

User-friendly network management

- Chinese/English LCD and LED mimic diagram: Real time operation parameters and status (7 inch touchscreen optional)

- RS232 & RS485 communication ports: For local monitor with corresponding software, both can support MODBUS protocol.

- SNMP adapter (Optional): For remote monitor through network

- Dry contacts (10-160kVA optional) for additional monitoring:

- UPS on Inverter
- Mains input failure
- Remote EPO
- Battery low voltage alarm
- UPS fault
- UPS alarm
- UPS on battery
- UPS on bypass

Note : d)~h) optional

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High output power factor 0.9

BCN[®]
Uninterruptible Power Supply



LOCAL AREA
NETWORKS
(LAN)



SERVERS



DATA
CENTRES



TELECOM-
MUNICATIONS
DEVICES



E-BUSINESS
(Servers Farm,
ISP/ASP/POP)



INDUSTRIAL
PROCESSES



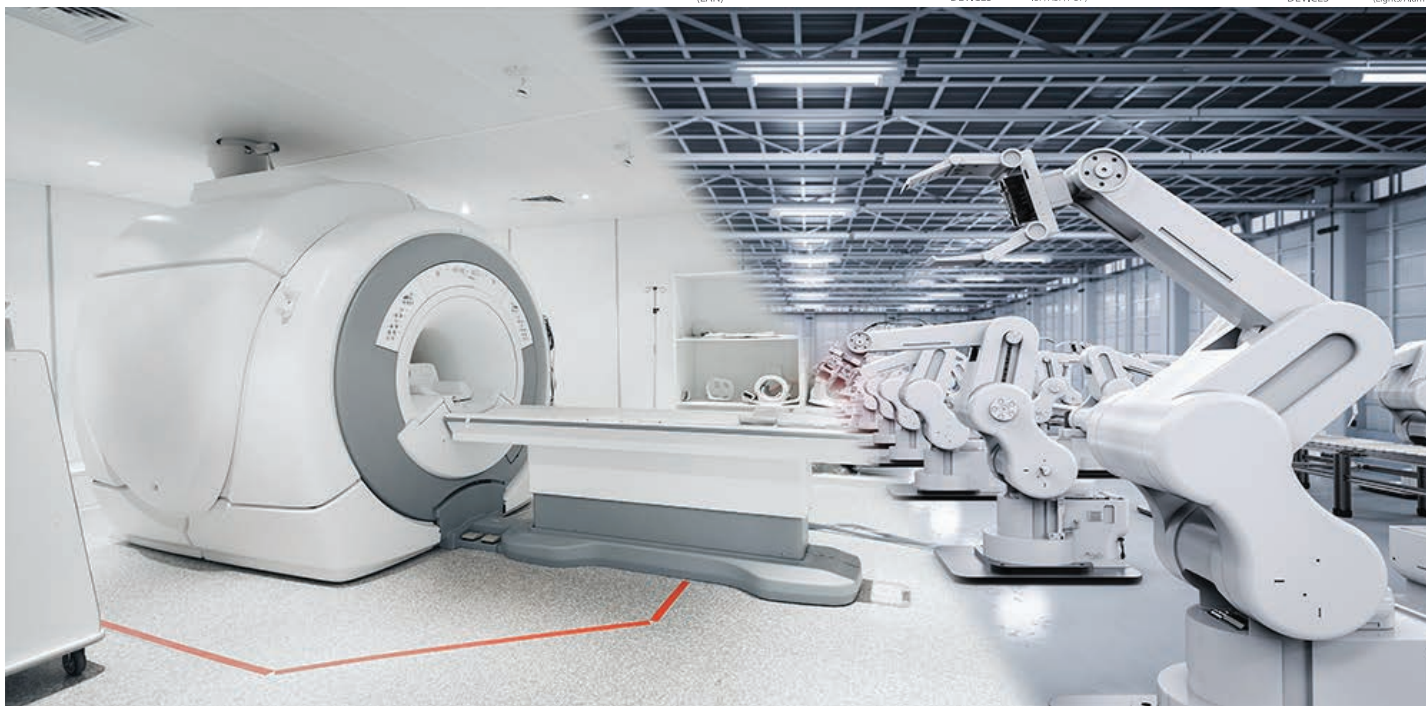
INDUSTRIAL
PLCS



ELECTRO-
MEDICAL
DEVICES



EMERGENCY
DEVICES
(Lights/Alarms)



EPower UPS Model Comparison (10kVA to 500kVA)



Your choice of power protection



BCN UPS



@btconnect



BCN UPS

EPower

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Transformer-based UPS

MODELS	EP10	EP20	EP30	EP40	EP60	EP80	EP100	EP120	EP160	EP200	EP300	EP400	EP500
Capacity (VA)	10KVA	20KVA	30KVA	40KVA	60KVA	80KVA	100KVA	120KVA	160KVA	200KVA	300KVA	400KVA	500KVA
Power (W)	9KW	18KW	27KW	36KW	54KW	72KW	90KW	108KW	144KW	180KW	270KW	360KW	450KW
INPUT													
Voltage range	(380Vac/400Vac/415Vac) : 380Vac -25%,415Vac+20% 3 Phase + N + PE												
Frequency range	50/60Hz±5Hz												
Power factor	≥0.98*												
OUTPUT													
Voltage range	380Vac/400Vac/415Vac ±1% 3 Phase + N + PE												
Frequency	50Hz/60Hz±0.05%												
Harmonic distortion (THDv)	≤2% (Linear load)												
Waveform	Pure sine wave												
Power factor	0.9 (lag)												
Crest factor	3:1 (max)												
Efficiency	88%	89%	90%	90.5%	92%	92.5%	93%	93.5%					
Overload													
BYPASS													
Rated voltage	380Vac/400Vac/415Vac 3 Phase + N + PE												
Frequency	50Hz/60Hz												
AC mode » Battery mode	0ms (zero time)												
Voltage protection range	Upper limit : +10%, +15%, +20% (adjustable) Lower limit : -10%, -20%, -30%, -40% (adjustable)												
Frequency protection range	±10% (±2.5%, ±5%, ±20% adjustable)												
BATTERY													
Battery voltage (VDC)	384V (360~384Vdc)												480Vdc
SYSTEM FEATURES													
Transfer time	0ms (zero time)												
Overload	Load<110%/60min;<125%/10mins;<150%/1 min, to Bypass												
LED display	Input, inverter, bypass, battery, output status												
LCD display	Input/Output voltage, frequency, power,power factor, battery voltage, current, battery status, load percentage, UPS status, history record												
Communication interface	RS232, RS485, EPO, Dry contact (Optional), SNMP card (Optaional)												
Optional	Harmonic filter, SNMP adapter, LBS cables, battery temperature sensor, Bypass current-sharing inductor												
ENVIRONMENTAL													
Operating temperature	0~40℃												
Storage temperature	-25℃~55℃												
Humidity	0~95% non-condensing												
Altitude	<1500m												
Noise (1m)	< 58dBA			< 68dBA				< 72dBA				< 75dBA	
PHYSICAL CHARACTERISTICS													
Net weight (Kg)	145	165	204	255	320	450	556(6P/ 1300(12P)	693(6P/ 1450(12P)	780(6P/ 1645(12P)	1030 (6P/ 1715 (12P)	1560 (6P/ 2395 (12P)	1640 (6P/ 2510 (12P)	3510
Gross weight (Kg)	160	180	225	280	345	485	591(6P/ 1370(12P)	738(6P/ 1520(12P)	825(6P/ 1775(12P)	1130 (6P/ 1845 (12P)	1690 (6P/ 2545 (12P)	1770 (6P/ 2665(12P)	3730
Dimension (WxDxH) mm	350x650x1050			430x830x1100		720x690 x1400	720x690 x1400(6P) 1515x830 x1600(12P)	890x790 x1600(6P) 1515x830 x1600(12P)	890x790 x1600(6P) 1400x1000 x1900(12P)	1200x800 x1600 (6P) 1400x1000 x1900 (12P)	1400x1000 x1900 (6P) 1640x1000 x1900 (12P)	2580x1000 x1900	2800x1040 x1900
STANDARDS													
Safety	IEC/EN 62040-1;IEC 62477-1												
EMC	IEC/EN 62040-2 (IEC 61000-4-2, IEC 61000-4-3, IEC 61000-4-4, IEC 61000-4-5, IEC 61000-4-6,IEC 61000-4-8, IEC 61000-4-11, IEC 61000-2-2)												
Performance	IEC/EN 62040-3												

*With optional filter.
All parameters are measured under the condition of laboratory
Specifications are subject to change without prior notice

- All specifications subject to change without notice.
- Custom-made specifications are acceptable.
- Manufactured by factory with ISO 9001, ISO 14001, ISO 45001, CE, STANDARD



TIS.1291 Part 1-2553
TIS.1291 Part 2-2553
TIS.1291 Part 3-2555

V.1122025

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