

# Three Phase UPS System

## 10kVA-500kVA



- ❶ Taurus Series, 10kVA~80kVA
- ❷ BRC Series, 25kVA~200kVA
- ❸ Bric M Series, 20kVA~500kVA
- ❹ BRT33 Series, 100kVA~500kVA

# Taurus Tower Online UPS (10kVA~80kVA)

The Ablerex Taurus is a mid-size, three-phase, new generation of transformer-less UPS that delivers power protection for the increasing loads in today's data centers.

With a transformerless design and Energy Saving Storage (ESS) technology, the Ablerex Taurus UPS is available in various configurations with integrated enclosures and external battery cabinets, ranging from 10kVA to 80kVA to suit your requirements.

## Features

- Single unit capacity from 10kVA to 80kVA
- Parallel up to 6 units, max. capacity 480kVA
- High efficiency and low cost of ownership
- Near to unity input power of 0.99
- Up to 96% Efficiency in Double conversion mode
- Fully rated output power
- Full front access maximizes system serviceability
- Full DSP (Digital Signal Processing) controlled

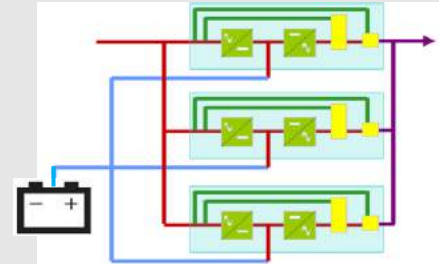
## Parallel Architecture

The flexibility of the Taurus UPS allows parallel expansion to achieve redundancy and to increase the total system capacity. Up to six UPS system can be paralleled without additional hardware.

## Flexible Battery Configuration

When operating in parallel configuration, the Ablerex Taurus UPS can be configured with common battery bank or individual battery bank to achieve the required backup time autonomy, providing highest load availability and reliability with cost effectiveness.

The number of battery block per string can be easily adjusted to achieve optimal sizing of battery capacity and minimal investment.



## Advanced Interface

The Ablerex Taurus UPS is equipped with an advanced LCD Coloured Touch Screen interface offering direct control and access to all parameters and system management with ease.



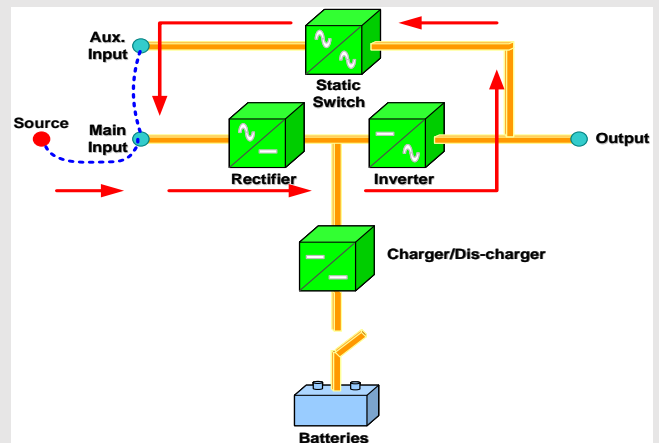
	R	S	T
Voltage(V)	219.7	219.5	219.7
Current(A)	3.2	2.9	2.9
Power Factor	0.99	0.99	0.99
	R-S	S-T	T-R
Voltage(V)	382.8	379	379.5
Frequency(Hz)	59.8		



## Automated Burn-in Test

With the ability to perform a full load test and/or full battery discharge test without the connection of a load bank, the Taurus UPS offers an unprecedented spectrum of benefits. The Taurus UPS is programmed to process power in a re-circulating fashion, using its own rectifiers and inverters as an internal load bank.

This load testing method generates significant saving in cost, time, coordination and power during UPS commissioning or servicing.

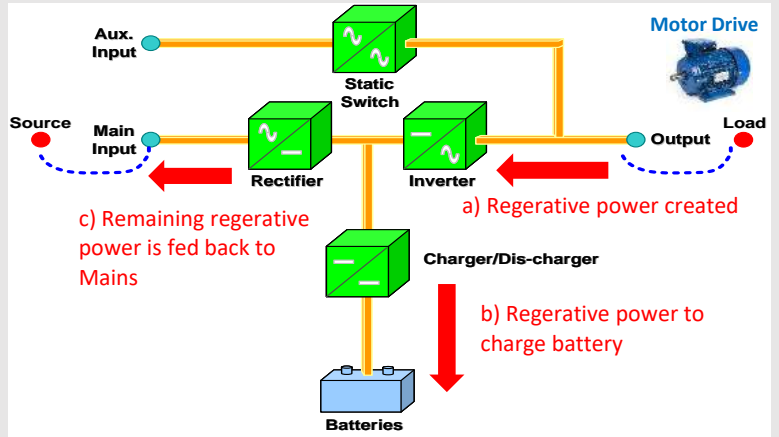


## Taurus UPS for Regenerative Load

The Taurus UPS is designed with two bi-directional IGBT to absorb the intermittent regenerative power from Motor load (VSD). With this design, the Taurus UPS allows regenerative power to flow back smoothly to the Mains without causing any damage to the UPS or interruption to the connected load and energy saving during regeneration transients.

### How Taurus UPS works

When braking slows or Motor stops, a) regenerative power is created and flows back to the UPS; b) if the battery is not fully charge, regenerative power is converted to DC via inverter to charge the battery; and c) remaining regenerative power is feed back to the Mains via the rectifier.



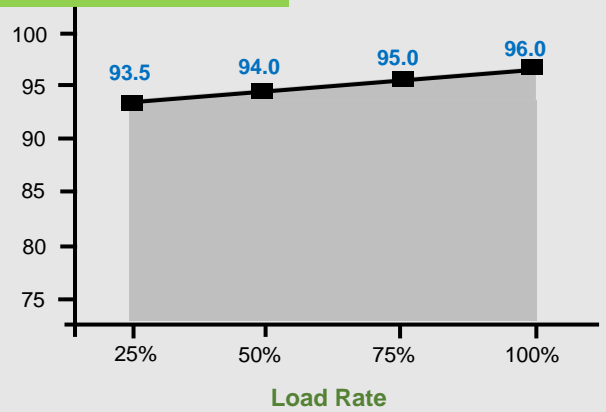
## Power Performance

Power Performance by providing a clean rectifier connection to the utility power. It meets today's industry standards for energy saving, low current harmonic pollution to the utility power and achieves up to 0.99 at Input Power Factor as well as <3% Current THD.

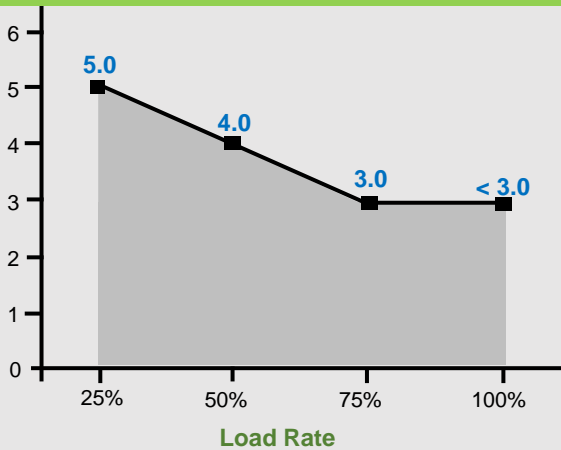
### High Efficiency from Low Load to Full Load

The Ablerex Taurus delivers high efficiency at partial and full load (up to 96% in double conversion online mode), dramatically reducing operating cost of the system, extending components service life and increasing overall power performance.

### AC – AC efficiency



### Input Current Total Harmonic Distortion (THDi)



### Low input current total harmonic distortion (THDi)

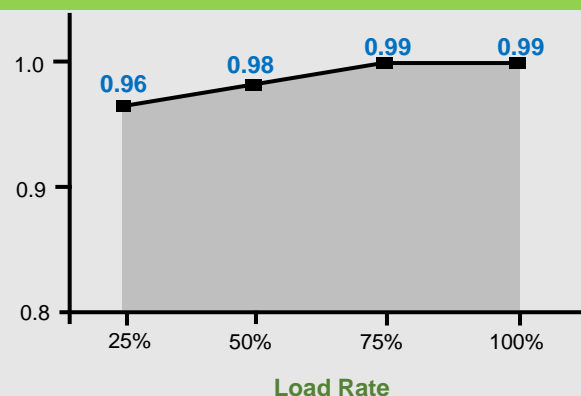
The Ablerex Taurus manage the input current total harmonic distortion (THDi) at a low level (3% at 100% load), eliminating harmonic distortion at the input of the system, providing greater operation reliability and extending the service life of UPS.

### Near-to-unity input power factor from Low Load to Full Load

The Ablerex Taurus input power factor is 0.99 even with partial loads, thus reducing the input installation cost by using smaller size input cables, fuses and Isolation Transformers.

The Ablerex Taurus can supply load from 0.9 leading to 0.9 lagging without derating.

### Input Power Factor Versus Load



# TAURUS Series On-Line UPS

TS10KVA ~ 80KVA



- 3 Level IGBT Technology
- High Efficiency, On-line Mode Efficiency 96%
- High Input Power Factor >0.99
- Low Input Harmonic, THDi% <3%
- Unity Output Power Factor 1.0
- Power Scalable and Parallel Redundancy
- Separate / Common Battery Configuration for Parallel Redundant System
- Iconic design HMI - Colour LCD Touch Screen

Capacity

Input

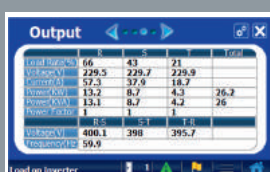
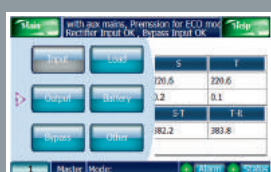
Output

Battery

Efficiency

Bypass

Environment



# Specifications

	10KVA	20KVA	30KVA	40KVA	60KVA	80KVA
Voltage	400V 3 Phase + N					
Voltage Tolerance	±20%					
Frequency	40 ~ 70Hz					
Power Factor	≥ 0.99					
THDi	<3%					
Voltage	380/400/415V 3 Phase + N					
Voltage Tolerance	±1% (Static Load)					
Power Factor	1					
Frequency	50/60Hz					
Frequency Tolerance	±0.05% (free running)					
Crest Factor	3:1					
Voltage Harmonic Distortion	<1% with linear load; <3% with distorting load					
Overload	110% for 60 minutes, 125% for 10 minutes, 150% for 1minutes					
Number of Batteries	32~40pcs configurable					
Max. Charging Current	3.5A	7A	10A	13A	20A	26A
Common Battery for Parallel Configuration	Yes					
VFI Mode	>94%		>95%		>96%	
ECO Mode	>98%					
Voltage	380/400/415V.3 Phase + N					
Voltage Tolerance	±5% ~ ±15% (Programmable)					
Frequency	50/60Hz					
Frequency Tolerance	±1Hz / ±3Hz (Selectable)					
Parallel	Up to 6 units					
Dimensions (W x D x H) mm	440 x 840 x 1390				600 x 827 x 1253 (w/o Wheel) 600 x 827 x 1300 (with Wheel)	
Weight(kg)	84	86	130	132	194 (w/o Wheel) 200 (with Wheel)	204 (w/o Wheel) 210 (with Wheel)
Protection Grade	IP20					
Display and MMI	4.3" Colorful LCD Touch Screen					
Built-in Communication Port	USB, EPO, Dry Contact					
Optional Communication	2 Communication Slots for SNMP Card, RS-485 Modbus Card, Dry Contact Card					
Operation Temperature	0~40°C / 32~104°F					
Operation Humidity	0~95% (w/o condensation)					
Tested to standards	LVD: EN62040-1, EMC requirements: EN62040-2					
Mark	CE					
Noise (at 1 meter)	<52dBA		<55dBA		<60dBA	

\*Specifications subject to change without notice.

\*\*Depending on the model and voltage, please contact Ablerex for more information.

\*\*\*The same technical specification may be sold in different countries under different model names, please consult Ablerex for more information.



## Electrical features

- Dual Input mains
- Internal maintenance bypass
- Easy parallel without more PCBs
- External temperature sensor
- DC cold start (option)



# Three Phase UPS System

## 100kVA-500kVA

- Up to 96% efficiency across a wide load range
- Near-unity input power factor >0.99
- Low input harmonic distortion <3%
- Dual input Mains for independent control of power sources
- Smart Rotation Redundancy optimized UPS reliability.
- Intelligent burn-in Technology without load.
- Large HMI Coloured LCD Touch Screen for advanced control and monitoring



# Bric M & BRC Series Modular Online UPS (20kVA~500kVA)

The BRIC M & BRC Series is a modular UPS ideal for medium to large sized power applications. With its modular structure, the true on-line, double conversion, three-phase UPS system offers a scalable and paralleable architecture for optimal power designs.

## Flexible Modular Design

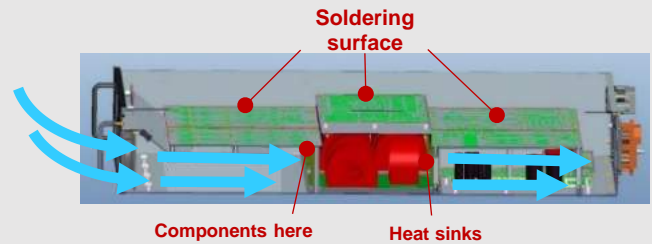
The modular architecture offers a scalable solution by providing the ability to add or remove power modules when the load increases or decreases, ensuring that the UPS system always operate at optimum efficiency.

Furthering the advantages, the hot-swappable functionality of critical components and power modules improve the serviceability of the UPS system thereby reducing Mean Time To Repair (MTTR) and ensuring power continuity should a module fails.



## Air Flow Design

In order to optimize the performance of the power modules, the modules has an unique air flow design with directed airflow channel. Fans are specifically positioned to direct cool air over the components and heat sinks to increase heat dissipation. It prevent dust and moisture from accumulating at the soldering points that could result in short circuit.

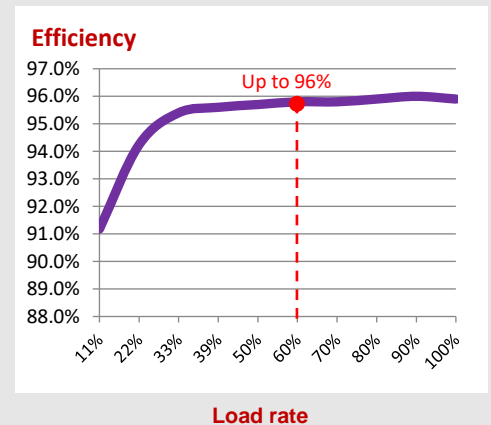
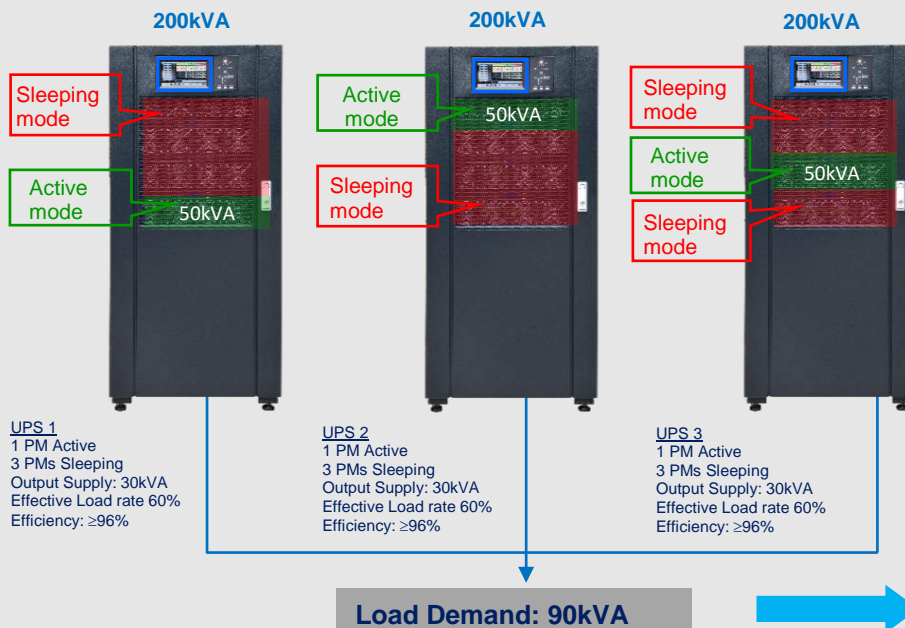


## Parallel Architecture

The flexibility of the power modules allows parallel expansion to achieve redundancy and to increase the total system capacity. Up to three UPS system can be paralleled without additional hardware.

## Smart Rotation Redundancy

In parallel system configuration, the UPS System ensure the highest efficiency also at partial load rate conditions down to very low load rate conditions - using Smart Rotation Redundancy. Each UPS automatically adjust the number of active power modules (PM) to share the load demand equally, putting the remaining power modules in a "sleeping mode". With this feature, the active PM operate at a higher effective load percentage, thus improving the efficiency and reliability of the overall UPS System.



**Overall Active System Capacity: 150kVA**  
**Overall Output Supply: 90kVA**  
**Effective Total Load Rate: 60%**  
**Achieve Efficiency: ≥96%**

## Smart Human Machine Interface

The UPS is fully equipped with user-friendly monitoring and controls in various languages. A large coloured LCD touch screen provides direct controls and parameters displays on a single page view.



# BRT33 Tower Online UPS (100kVA~500kVA)

The BRT series is an advanced 3 Phase tower UPS ideal for small and medium data centers. Seamlessly integrated into today's data center design, this design is easily and efficiently serviceable, offers a scalable and paralleable architecture as demand grows.

## IGBT Technology

Multiple high power density subsystems comprise of advanced IGBT electronics with speed controlled cooling fans are integrated into the compact UPS tower design. The design features of multiple subsystems is to facilitate ease of maintenance and repair, and space saving with a small footprint of 0.5m<sup>2</sup> at 100kVA.



## Built-in Maintenance and Static Bypass

Built-in Maintenance and Static Bypass switch prevents interruption by allowing load transfer to utility during overloads.

## Parallel Architecture

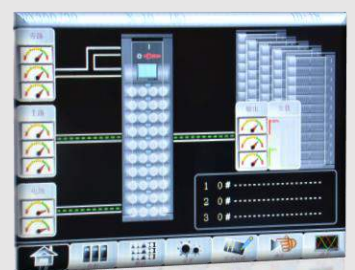
Parallel up to 1500kVA to increase the system's total capacity and providing fail-safe redundancy, thus enhancing its fault management capability by preventing a single point of failure.

## Smart Rotation Redundancy

Featuring Smart Rotation Redundancy, each UPS automatically adjust the number of active subsystem to share the load demand equally, putting the remaining subsystems in a "sleeping mode". This feature allows the active subsystems to maximise uptime and availability of the overall UPS System.

## Smart Human Machine Interface

Equip with market largest Smart HMI, the 10.4inch Colored LCD Touch Screen provides real time information, enables direct control and access to all parameters and waveforms for management of the UPS System.



# BRT33 Series On-Line Tower UPS

100KVA ~ 500KVA

■ BRT33 150P  
■ BRT33 200P

■ BRT33 400P  
■ BRT33 500P



- ◆ Front Access for operation and maintenance reduces Mean Time to Repair (MTTR)
- ◆ High Power Density, Small Footprint
- ◆ High Efficiency >96% in On-line mode
- ◆ High Input Power Factor >0.99
- ◆ Low Input Harmonic, THDi% <3%
- ◆ Built in Backfeed Protection and Maintenance Switch
- ◆ Advanced Operation Interface -- 10.4" Colored LCD Touch Screen



Model (BRT33)

Power Rating

Input

Bypass

Output

Protection

Battery

System

Interface

Physical

Environment

Standards and  
Certifications

# Specification

	100P	120P	150P	200P	250P	300P	400P	500P
	100kVA / 90kW	120kVA / 108kW	150kVA / 135kW	200kVA / 180kW	250kVA / 225kW	300kVA / 270kW	400kVA / 360kW	500kVA / 450kW
Voltage, Phase	380V / 400V / 415V, 3 Phase + N + G							
Voltage Range	304V ~478V line to line at full load							
Frequency	40~70Hz							
Power Factor	≥0.99							
THDi	<3%							
Voltage, Phase	380/400/415V 3 Phase + G + N							
Voltage Range	20% to 15%							
Frequency	50/60Hz							
Frequency Tolerance	±1Hz, ±3Hz, ±5Hz (Selectable)							
Voltage, Phase	380/400/415V 3 Phase + N + G							
Voltage Tolerance	±1.5%							
Power Factor	0.9							
Frequency	50/60Hz							
Frequency Tolerance	±0.01% (free running)							
Crest Factor	3:1							
THDu	<1% for linear load; <5.5% for non-linear load							
Overload	110% for 60 minutes, 125% for 10 minutes, 150% for 1 minute, >150% for 200ms							
Voltage	±240Vdc (with +/N/- connections)							
Charging Power	20% of UPS Capacity							
VFI Mode	>96%	>95.5%						>96%
Backup Mode	>96%	>95%						>96%
ECO Mode	>99%							
Display	10.4" Coloured LCD Touch Screen							
Built-in Communication	RS232, RS485, USB, Dry Contact							
Optional Communication	SNMP							
Parallel	Up to 1500kVA							
Dimension (mm)	600 (W) × 980 (D) × 1150 (H)	600 (W) × 980 (D) × 1400 (H)	650 (W) × 960 (D) × 1600 (H)		650 (W) × 960 (D) × 2000 (H)		1300 (W) × 1100 (D) × 2000 (H)	
Weight	210kg	266kg	305kg	350kg	445kg	490kg	810kg	900kg
Operating Temperature	0~40°C							
Operating Humidity	0~95% (without condensation)							
Protection Grade	IP20							
Noise (at 1 meter)	<68dB at 100% load; 65dB at 45% load				<72dB at 100% load; 69% at 45% load			
Safety and EMC	IEC/EN 62040-1 (Safety) and IEC/EN 62040-2 (EMC)							
Markings	CE							

# BRC Series On-Line Modular UPS

25KVA ~ 200KVA

■ BRC-150



■ BRC-200



- ◆ Three-Phase Modular System designed for Rack Integration
- ◆ Hot-Swappable Power Modules to reduce Mean Time to Repair (MTTR)
- ◆ High Power Density
- ◆ High Efficiency >96% in On-line mode
- ◆ Low Input Harmonic, THDi% <3%
- ◆ High Scalability supporting N+X redundancy
- ◆ Advanced Operation Interface -- 10.4" Colored LCD Touch Screen



Power Module Model  
Power Rating

Input

Bypass

Output

Protection

Battery

System

Interface

Physical

Environment

Standards and  
Certifications

Cabinet Model

BRC-150

BRC-200

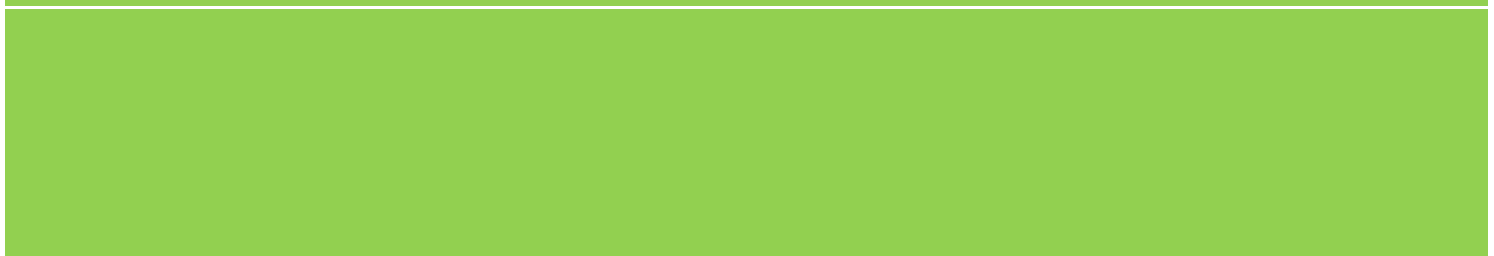
# Specification

## BRC-25C 25kVA/25kW

Voltage, Phase	380V / 400V / 415V, 3 Phase + N + G
Voltage Range	304V ~478V line to line at full load
Frequency	40~70Hz
Power Factor	≥0.99
THDi	<3%
Voltage, Phase	380/400/415V 3 Phase + N + G
Voltage Range	Settable, -40% ~ +25%
Frequency	50/60Hz
Frequency Tolerance	±1Hz, ±3Hz, ±5Hz (Selectable)
Voltage, Phase	380V / 400V / 415V, 3 Phase + N + G
Voltage Range	±1% (Static Load)
Power Factor	1.0
Frequency	50/60Hz
Frequency Tolerance	±0.1% (free running)
Crest Factor	3:1
THDu	<1% for linear load; <6% for non-linear load
Overload Capacity	110% for 60 minutes, 125% for 10 minutes, 150% for 1 minute, >150% for 200ms
DC Voltage	±240Vdc (with +/N/- connections)
Number of batteries	32~44pcs configurable
Charging Power	20% of UPS Capacity
VFI Mode	>96%
Backup Mode	>95%
ECO Mode	>99%
Display	10.4" Coloured LCD Touch Screen
Built-in Communication	RS232, RS485, Dry Contact
Optional Communication	SNMP
Parallel	Up to 3 units
Power Module Dimension (mm)	436 (W) × 677 (D) × 85 (H)
Power Module Weight	18kg
Protection Index	IP20
Noise (at 1 meter)	65dB
Operating Temperature	0~40°C
Operating Humidity	0~95% (without condensation)
Safety and EMC	IEC/EN 62040-1 (Safety) and IEC/EN 62040-2 (EMC)
Markings	TUV-SUD



Maximum Capacity	Max. No. of Power Modules	Cabinet Dimension (mm)	Cabinet Weight	Parallel Operation
150kVA	Up to 6 nos. x BRC-25C	482 (W) x 916 (D) x 931 (H)	140kg	Up to 3 Cabinets
200kVA	Up to 8 nos. x BRC-25C	482 (W) x 916 (D) x 1550 (H)	160kg	Up to 3 Cabinets

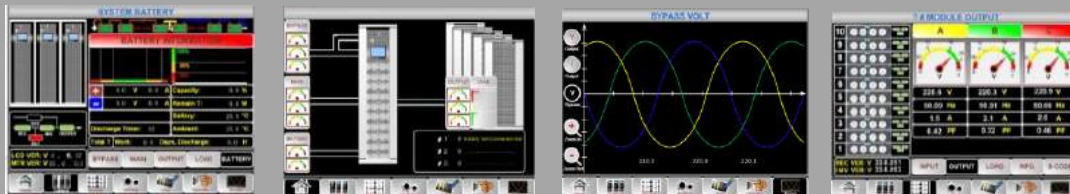


# BRIC M Series On-Line Modular UPS

20KVA ~ 500KVA



- ◆ Hot-Swappable Power Modules to reduce Mean Time to Repair (MTTR)
- ◆ High Power Density
- ◆ High Efficiency >96% in On-line mode
- ◆ High Input Power Factor >0.99
- ◆ Low Input Harmonic, THDi% <3%
- ◆ High Scalability supporting N+X redundancy
- ◆ Smart Sleep Mode for Energy Saving
- ◆ Advanced Operation Interface -- Colored LCD Touch Screen



Power Module Model  
Power Rating

Input

Bypass

Output

Protection

Battery

System

Interface

Physical

Environment

Standards and  
Certifications

Cabinet Model

BRIC M-60-20P

BRIC M-120-20P

BRIC M-200-20P

BRIC M-180-30P

BRIC M-300-30P

BRIC M-600-30P

BRIC M-80-40P

BRIC M-160-40P

BRIC M-240-40P

BRIC M-400-40P

BRIC M-100-50P

BRIC M-200-50P

BRIC M-300-50P

BRIC M-500-50P

# Specification

	BRIC M-20P 20kVA/18kW	BRIC M-30P 30kVA/27kW	BRIC M-40P 40kVA/40kW	BRIC M-50P 50kVA/45kW
Voltage, Phase	380V / 400V / 415V, 3 Phase + N + G			
Voltage Range	304V ~478V line to line at full load			
Frequency	50Hz / 60Hz			
Power Factor	≥0.99			
THDi	<3%			
Voltage, Phase	380/400/415V, 3 Phase + N + G			
Voltage Range	-20% to 15%			
Frequency	50/60Hz			
Frequency Tolerance	±3Hz			
Voltage, Phase	380V / 400V / 415V, 3 Phase + N			
Voltage Tolerance	±1.5%			
Power Factor	0.9		1.0	0.9
Frequency	50/60Hz			
Frequency Tolerance	±0.01% (free running)			
Crest Factor	3:1			
THDu	<1% for linear load; <5.5% for non-linear load			
Overload Capacity	110% for 60 minutes, 125% for 10 minutes, 150% for 1 minute, >150% for 200ms			
DC Voltage	±240Vdc (with +/N/- connections)			
Number of batteries	36~44pcs configurable			
Charging Power	20% of UPS Capacity			
VFI Mode	>95%		>96%	
ECO Mode	>99%			
Display	5.7" LCD Coloured Touch Screen (for Bric M-60 ~ 200 Cabinet) 10.4" LCD Coloured Touch Screen (for Bric M-180 ~ 500 Cabinet)			
Built-in Communication	RS232, RS485, USB, Dry Contact			
Optional Communication	SNMP			
Power Module Dimension (mm)	440 (W) × 590 (D) × 134 (H)	440 (W) × 590 (D) × 134 (H)	510 (W) × 700 (D) × 178 (H)	
Power Module Weight	22kg	34kg	44kg	45kg
Protection Index	IP20			
Noise (at 1 meter)	72dB at 100% load; 62dB at 45% load			
Operating Temperature	0~40°C			
Operating Humidity	0~95% (without condensation)			
Safety and EMC	IEC/EN 62040-1 (Safety) and IEC/EN 62040-2 (EMC)			
Markings	TUV-SUD			

Maximum Capacity	Max. No. of Power Modules	Cabinet Dimension (mm)	Cabinet Weight	Parallel Operation
60kVA	Up to 3 nos. x Bric M-20P	600 (W) × 900 (D) × 1100 (H)	105kg	Up to 2 Cabinets
120kVA	Up to 6 nos. x Bric M-20P	600 (W) × 900 (D) × 1600 (H)	145kg	Up to 2 Cabinets
200kVA	Up to 10 nos. x Bric M-20P	600 (W) × 900 (D) × 2000 (H)	179kg	Up to 2 Cabinets
180kVA	Up to 6 nos. x Bric M-30P	600 (W) × 1100 (D) × 1600 (H)	165kg	Up to 3 Cabinets
300kVA	Up to 10 nos. x Bric M-30P	600 (W) × 1100 (D) × 2000 (H)	220kg	Up to 3 Cabinets
600kVA	Up to 20 nos. x Bric M-30P	2000 (W) × 1100 (D) × 2000 (H)	660kg	No
80kVA	Up to 2 nos. x Bric M-40P	600 (W) × 980 (D) × 1150 (H)	115kg	Up to 3 Cabinets
160kVA	Up to 4 nos. x Bric M-40P	650(W) × 960 (D) × 1600 (H)	165kg	Up to 3 Cabinets
240kVA	Up to 6 nos. x Bric M-40P	650 (W) × 970 (D) × 2000 (H)	215kg	Up to 3 Cabinets
400kVA	Up to 10 nos. x Bric M-40P	1300 (W) × 1100 (D) × 2000 (H)	900kg	Up to 3 Cabinets
100kVA	Up to 2 nos. x Bric M-50P	600 (W) × 980 (D) × 1150 (H)	115kg	Up to 3 Cabinets
200kVA	Up to 4 nos. x Bric M-50P	650 (W) × 960 (D) × 1600 (H)	165kg	Up to 3 Cabinets
300kVA	Up to 6 nos. x Bric M-50P	650 (W) × 970 (D) × 2000 (H)	215kg	Up to 3 Cabinets
500kVA	Up to 10 nos. x Bric M-50P	1300 (W) × 1100 (D) × 2000 (H)	900kg	Up to 3 Cabinets

#### **HQs-Taiwan**

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