Three Phase UPS System 100kVA-600kVA

- Up to 96% efficiency across a wide load range
- MTBF: 1.000.000 hours
- Near-unity input power factor >0.99
- Low input harmonic distortion <2.5%
- 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 PLUS Series Modular Online UPS (10kVA~600kVA)

The BRIC M PLUS 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

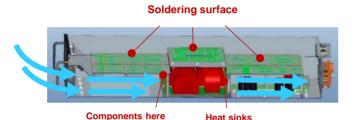
The modular architecture offers a scalable solution by providing the ability to add or remove power modules when the load increases or decreases, ensuring that the UPS system always operate at optimum efficiency.

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.

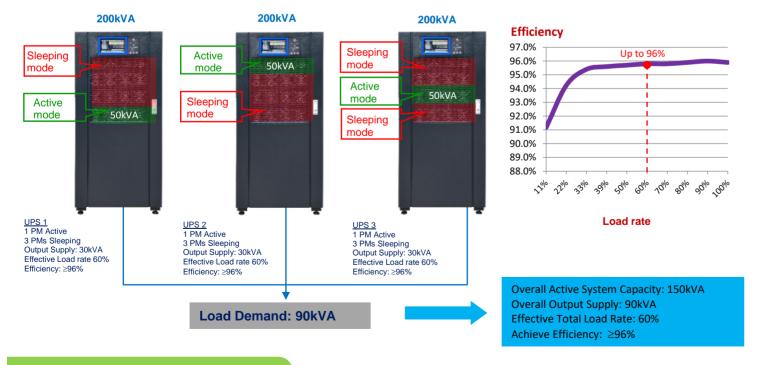


Parallel Architecture

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.



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.

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

Multiples 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 0.5m² at 100kVA.



Built-in Maintenace 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.







BRIC M PLUS Series On-Line Modular UPS

30KVA ~ 600KVA



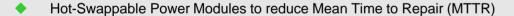
PERFECT FOR:











- **High Power Density**
- High Efficiency >96% in On-line mode
- High Input Power Factor >0.99
- Low Input Harmonic, THDi% <2.5%
- High Scalability supporting N+X redundancy
- Smart Sleep Mode for Energy Saving
- Advanced Operation Interface -- Colored LCD Touch Screen
- Individual LCD display on each module for 30kVA, 40kVA and 50kVA



LCD Display Module status:

- Input Voltage
- Input Current
- Output Current
- Output Load %



Specification

Power Module Model		BRIC M PLUS-30P	BRIC M PLUS-40P	BRIC M PLUS-50P		
Power Rating		30kVA/30kW	40kVA/40kW	50kVA/50kW		
	Voltage, Phase	380V / 400V / 415V, 3 Phase + N + G				
	Voltage Range	304V ~478V line to line at full load				
Input	Frequency	50Hz / 60Hz				
	Power Factor	≥0.99				
	THDi ⁽¹⁾	<2.5%				
	Voltage, Phase	380/400/415V, 3 Phase + N + G				
_	Voltage Range	-20% to 15%				
Bypass	Frequency	50/60Hz				
	Frequency Range	±3Hz				
	Voltage, Phase	380V / 400/V / 415V, 3 Phase + N				
	Voltage Range	±1.5%				
	Power Factor	1.0	1.0	1.0		
Ouput	Frequency	50/60Hz				
	Frequency Range	±0.01% (free running)				
	Crest Factor	3:1				
	THDu ⁽²⁾	<1% for linear load; <3% for non-linear load				
Protection	Overload Capacity	110% for 60 minutes, 125% for 10 minutes, 150% for 1 minute, >150% for 200ms				
	DC Voltage	±240Vdc (with +/N/- connections)				
Battery	Number of batteries	36~44pcs configurable				
	Charging Power	20% of UPS Capacity				
System	VFI Mode	>95% >96%				
System	ECO Mode	>99%				
Interfere	Display	7" Touch Screen (for Bric M-80,100,160,200-50P Cabinet) 10.4" LCD Coloured Touch Screen (for Bric M-180, 240, 300, 400, 500, 600 Cabinet)				
Interface	Built-in Communication	RS232, RS485, USB, Dry Contact				
	Optional Communication	SNMP				
Develled Feetures	Max. no of PM in Parallel	30	30	30		
Parallel Features	Max. Parallel Capacity	900kVA	1,200kVA	1500VA		
	Power Module Dimension (mm)	440 (W) x 590 (D) x134 (H) 510 (W) × 700 (D) × 178 (H)		(D) × 178 (H)		
Dhyaiaal	Power Module Weight	34kg	44kg	45kg		
Physical	Protection Index	IP20				
	Noise (at 1 meter)	72dB at 100% load; 62dB at 45% load				
F	Operating Temperature	0~40°C				
Farabasassas	Operating Temperature		0~95% (without condensation)			
Environment	Operating Humidity		0~95% (without condensation)			
Environment Standards and	_ 	IEC/EN 62040-1 (Safety) a	0~95% (without condensation) nd IEC/EN 62040-2 (EMC), IEC/EN	N 62040-3 (Performance)		

(1), (2): Conditional

Cabinet Model	Per Cabinet Capacity	No. of Power Modules per Cabinet	Cabinet Dimension (mm)	Cabinet Weight
BRIC M PLUS-180-30P	180kVA	Up to 6 nos. x Bric M-30P	600 (W) × 1100 (D) × 1600 (H)	178kg
BRIC M PLUS-300-30P	300kVA	Up to 10 nos. x Bric M-30P	600 (W) × 1100 (D) × 2000 (H)	242kg
BRIC M PLUS-600-30P	600kVA	Up to 20 nos. x Bric M-30P	2000 (W) × 1100 (D) × 2000 (H)	660kg
BRIC M PLUS-80-40P	80kVA	Up to 2 nos. x Bric M-40P	600 (W) × 980 (D) × 1150 (H)	210kg
BRIC M PLUS-160-40P	160kVA	Up to 4 nos. x Bric M-40P	650(W) × 960 (D) × 1600 (H)	350kg
BRIC M PLUS-240-40P	240kVA	Up to 6 nos. x Bric M-40P	650 (W) × 1095 (D) × 2000 (H)	490kg
BRIC M PLUS-400-40P	400kVA	Up to 10 nos. x Bric M-40P	1300 (W) × 1100 (D) × 2000 (H)	900kg
BRIC M PLUS-100-50P	100kVA	Up to 2 nos. x Bric M-50P	600 (W) × 980 (D) × 1150 (H)	210kg
BRIC M PLUS-200-50P	200kVA	Up to 4 nos. x Bric M-50P	650 (W) × 960 (D) × 1600 (H)	350kg
BRIC M PLUS-300-50P	300kVA	Up to 6 nos. x Bric M-50P	650 (W) × 1095 (D) × 2000 (H)	490kg
BRIC M PLUS-500-50P	500kVA	Up to 10 nos. x Bric M-50P	1300 (W) × 1100 (D) × 2000 (H)	900kg