



BRS Series



10kW ~ 3.6MW

A Swiss made 3-phase, online double conversion and fully decentralized modular UPS. Adding Distributed Active-redundant technology (DARA™), preventing human error and reducing mean time to repair, BRS delivers an industry leading availability to fulfil the needs of the most critical power applications.



Data Center



Critical loads



Medical Equipment



Industry

Powered by **centiel**



THE TECHNOLOGY



FLEXIBLE INTELLIGENT MODULE (IM)

Every BRS Intelligent Module is designed as a complete UPS, and is equipped with three independent power converters, one static bypass, and is capable of running all hardware and software (intelligence and monitoring) functions. In the event of an internal fault, the fully independent module is capable of isolating itself from the multi-module system – safely and efficiently.



Distributed Active-Redundant Architecture (DARA™)

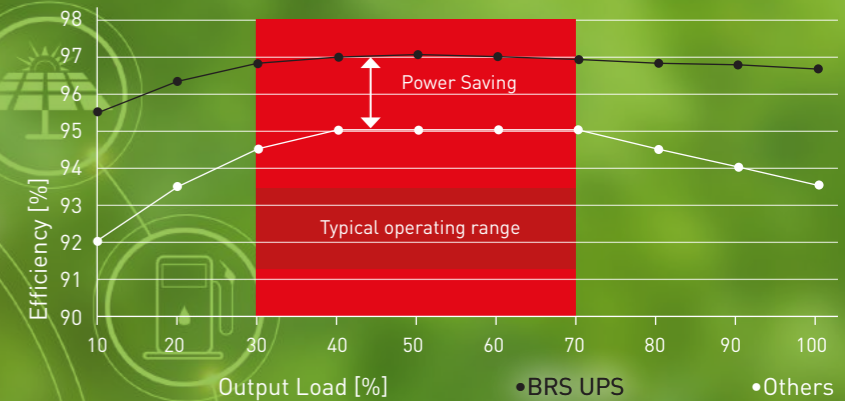
Be assured that should a critical failure occur, the BRS Series is designed to respond to highest availability requirements – and achieves through with its implementation of the system's distributed decision-making, as well as intelligent management of load sharing. Communication between the Intelligent Modules is accomplished with a fully redundant **TripleMode™** communication BUS.

FEATURES

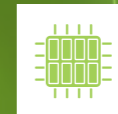
9 NINES AVAILABILITY ZERO DOWNTIME



- **97.1% High Efficiency VFI mode / 99.4% Eco mode**
 - > Reduce TCO. cost of energy and cooling system downsized.
 - > Pay less for every kWh



- **Unity Power Factor kVA = kW**



- **Redundant multi processor control logic**
 - > Increase availability



- **≥ 10 years of DC capacitors life "Plug-and-play" AC capacitors**
 - > Simplifies maintenance operation
 - > Lower cost in spare parts



- **Input current Walk-in smoothed ramp**
 - > No need to oversized Diesel Generator/distribution components
 - > Reduced system costs



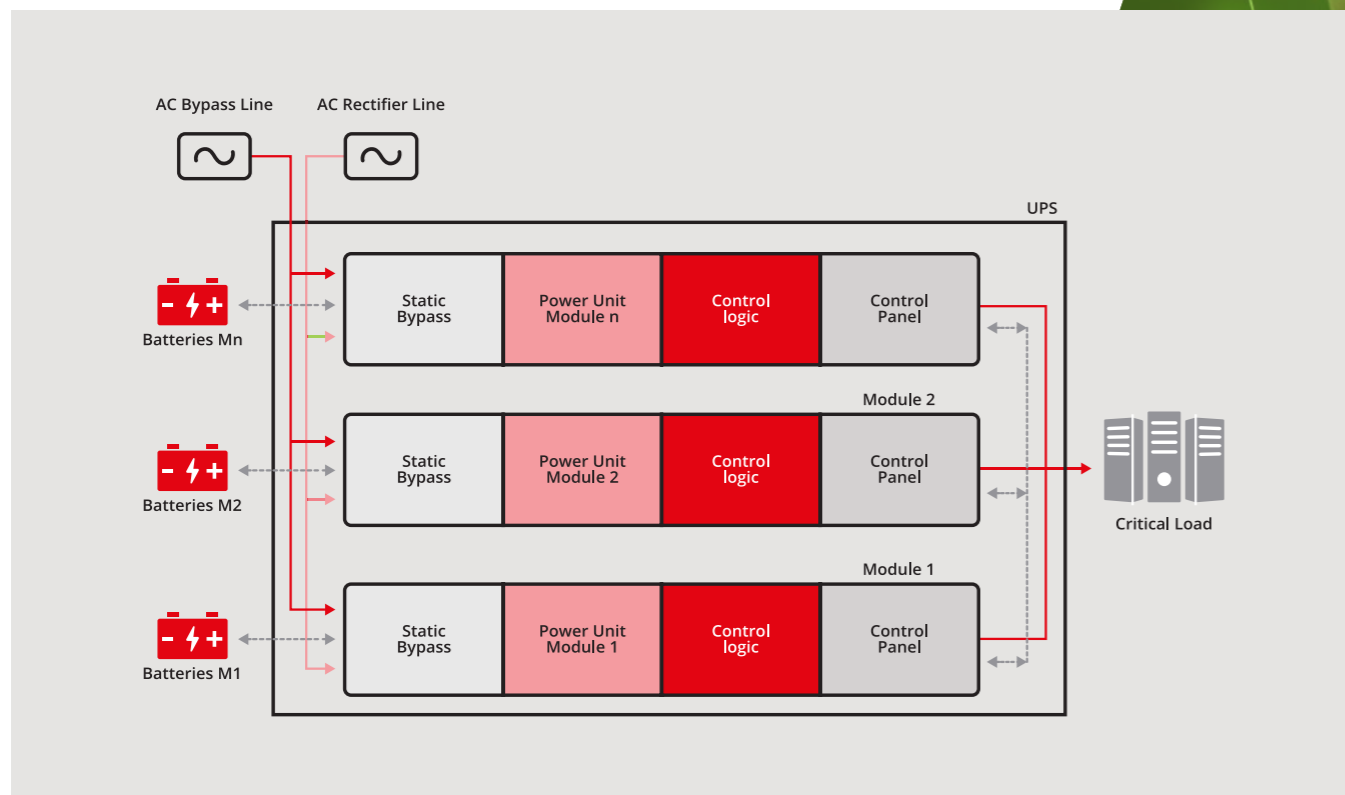
- **3" user Graphical LCD Interface on each Module**
 - > Simplify system configuration, troubleshooting



- **Actively controlled fan ventilation**
 - > Anticipate unexpected malfunction
 - > Change only when needed (<TCO)



- **Independent Smart Battery Booster**
 - > IM10/20/25: 20A Battery charging current ; IM50/60: 40A Battery charging current
 - > Battery blocks: 10kW: 20-50 ; 20kW: 30-50 ; 25kW: 38-50 ; 50kW: 32-50 ; 60kW: 38-50
 - > Safe battery tests (no need to disconnect mains supply during batt test)



SPECIFICATIONS

MODEL		BRS-IM10	BRS-IM20	BRS-IM25	BRS-IM50	BRS-IM60
Nominal power per module [kVA=kW]		10	20	25	50	60
INPUT MAINS	Input Wiring	3Ph+N+PE				
	Rated Voltage	380/400/415Vac				
	Voltage Range	For loads <100% (-25%, +20%); <80% (-32.5%, +20%); <60% (-35%, +20%)				
	Input Frequency	40~70Hz				
	Input Power Factor	0.99				
	Total Harmonic Distortion	THDi<3% for linear load, THDi <5% for non linear load				
INPUT BYPASS	Input Wiring	3Ph+N+PE				
	Rated Voltage	360/400/420Vac				
	Input Frequency	50/60Hz±2/4% (Selectable)				
OUTPUT	Output Wiring	3Ph+N+PE				
	Voltage	380/400/415Vac±1%				
	Frequency	Tracking the bypass input (Online Mode)				
	Waveform	Sinewave (THDv<1% for linear load, THDi <3% for non-linear load)				
	Output Power Factor	1.0				
	Inverter Efficiency	97.1%				
	Bypass Efficiency	99.4%				
	Short Circuit Capability	3xIN				
	Overload Capacity	Inverter 124% continuous, 125% for 10 minutes, 150% for 1 minute Bypass 135% for long term, <1000% overload for 100ms				
BATTERY	Rated Voltage	360-480Vdc (the number of batteries can be selected)				
	Batteries	External				
	Type	Lead-Acid/NiCad/Lithium				
	Blocks [LA/Cells[NicAd]	20-50	30-50	38-50	32-50	38-50
	Charger (Amp/module)	20			40	
COMMUNICATION	Built-in Communication Port	RS485, RS232, 2xDry Input				
	Optional Communication	Dry Contacts, Ethernet, Bluetooth				
ENVIRONMENT	Operation Temperature	0~40°C				
	Relative Humidity	0%~95% (Non-condensing)				
	Noise	<65dB				

FRAME MODEL	CP100-E-A1	CP150-E-A0	CP251-E-B0	CP300-E-B0	CP600-E-B0
No. of Modules per Frame	up to 4nos of IM10/IM20/IM25	up to 6nos of IM10/IM20/IM25	up to 10nos of IM10/IM20/IM25	up to 5nos of IM50/IM60	up to 10nos of IM50/IM60
Max Power Per Frame	100kW	125kW	250kW	300kW	600kW
Batteries	External	External	External	External	External
H x W x D mm	1,315x510x815	1,980x510x815	1,980x730x815	1,980x730x845	1,980x1,460x845
Weight (Kg) without modules	107	148	210	209	396
Footprint	0.41m ²	0.41m ²	0.59m ²	0.61m ²	1.19m ²

Specifications subject to change without notice

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