



ИБП Borri UPSaver - брошюра на продукцию. Юниджет

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UPSAVER

Uninterruptible Power Supply

3ph from 400 kW to 1.6 MW



Applications

- Large data centers

Highlights

- Modular three phase
- Paralleling up to 12.8 MVA
- 4 modes of operation
- Low TCO

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Uninterruptible Power Supply

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Features and benefits

- Patented Green Conversion providing high efficiency and battery care technology for continuous savings on operating and maintenance expenditure.
- Four operating modes providing best efficiency in all conditions: DHE double conversion 96% efficiency, VHE* active filtering 97%, ECO mode 98%, UHE* highest efficiency 99.5%.
- Four modularity levels for maximum flexibility and quick maintenance.
- I/O unit specific design providing real hot expandability and maintainability, with no downtime and no bypass operation.
- Load based module shutdown for highest efficiency at light load.
- Included backfeed bypass contactor for complete protection and operators' safety without additional installation costs.
- Minimum TCO (Total Cost of Ownership) and best PUE (Power Usage Effectiveness) for low environmental footprint data centers.

Main options

- Centralized static bypass.
- Modular battery.
- Transformers/autotransformers for isolation or voltage adjustment.
- Battery voltage temperature compensation.
- Associated battery cabinets for long autonomy times.
- Parallel kit for load sharing.
- Load-sync for single UPS units. Load-sync box for two sets of paralleled UPS.



*optional



UPSAVER technical data

Rating	400	600	800	1000	1200	1400	1600
N nominal power (kW)	400	600	800	1000	1200	1400	1600
N+1 nominal power (kW)	200	400	600	800	1000	1200	1400
UPS dimensions WxDxH (mm)*	2350x970x2100	2950x970x2100	3900x970x2100	4500x970x2100	5100x970x2100	6800x970x2100	7400x970x2100
UPS weight (kg)*	1660	2260	2920	3590	4190	4960	5560
Battery configuration	External 360 to 372 cells, VRLA (other options)						

Input

Connection type	Hardwired 4w (rectifier), 4w (bypass)
Nominal voltage	400 Vac 3-phase with neutral (rectifier), 380/400/415 Vac 3-phase with neutral (bypass)
Voltage tolerance	-20%, +15% (rectifier); $\pm 10\%$ (bypass)
Frequency and range	50/60 Hz, 45 to 65 Hz
Power factor	0.99
Current distortion (THDi)	<3%

Output

Connection type	Hardwired 4w
Nominal voltage	380/400/415 Vac 3-phase with neutral
Frequency	50/60 Hz
Voltage regulation (VFI)	Static: $\pm 1\%$; dynamic: IEC/EN 62040-3 Class 1
Power factor	Any power factor (leading or lagging) up to 1, without power derating
Overload capability	Inverter: 125% for 10 min, 150% for 1 min; bypass: 150% continuous, 1000% for 1 cycle
AC/AC efficiency**	Up to 99.5%
Classification as per IEC/EN 62040-3	VFI-SS-111

Connectivity and function extensions

Front panel	10" colour touch screen display, 1024x600 pixels
Remote communication	Included: serial RS232 and USB; input terminal block (remote emergency power off, battery circuit breaker aux. cont., external maintenance bypass circuit breaker aux. cont., diesel mode aux. cont., external output circuit breaker aux. cont., remote transfer to bypass mode); SPDT contact relay board. Optional: ModBus-TCP/IP (Ethernet); ModBus-RTU (RS485); ModBus-RTU to PROFIBUS DP adapter
Optional function extensions	Isolation transformer; custom battery cabinets; wall-mounted battery fuse switch box; battery thermal probe; parallel kit; load-sync for single UPS and load-sync box (2 UPS systems); other options on request

System

Protection degree	IP 20
Colour	RAL 9005
Installation layout	Wall, back to back and side by side installation allowed
Accessibility	Front and top access, bottom and top cable entry
Parallel configuration	Up to 8 UPS, for a total of 12.8 MW

* referred to distributed battery, distributed static switch, bottom cable entry. For other configurations contact our sales team ** according to IEC/EN 62040-3

Other features

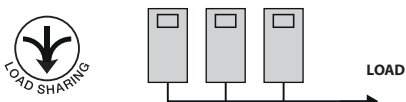
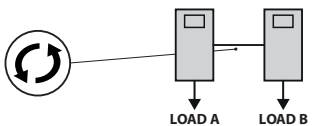
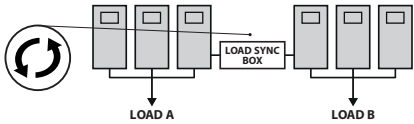
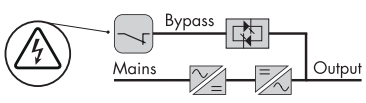
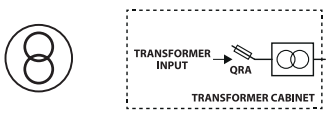
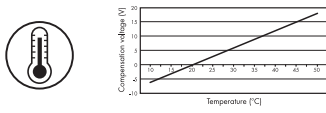



Environmental

Operating temperature	0°C to +40°C
Storage temperature	-10°C to +70°C
Altitude (AMSL)	< 1000 m without power reduction, > 1000 m with reduction of 0.5% per 100 m
Audible noise at 1m (dBA)	<50 (UHE)

Standards and certifications

Quality assurance, environment, health and safety	ISO 9001:2008, ISO 14001:2004, BS OHSAS 18001:2007
Safety	IEC/EN 62040-1
EMC	IEC/EN 62040-2
Test and performance	IEC/EN 62040-3
Protection degree	IEC 60529
Marking	CE

UPSAVER series options

	Description	When do I use it
	Parallel kit	When the unit is to be paralleled for load sharing
	Load-sync for single units	To synchronize single units' output for no-break load transfers by downstream static transfer switches
	Load-sync box for two sets of paralleled UPS	To synchronize the output of two paralleled UPS systems for no-break load transfers by downstream static transfer switches
	Backfeed protection bypass contactor	To be fully protected against backfeed energy upon static bypass failure
	Isolation transformer in extended cabinet	To galvanically isolate UPS from load or to change system's earthing arrangement
	Battery temperature probe	For charging voltage compensation with temperature (10 m cable length)
	Dry contact relay card	To send UPS status to PLC's, SCADA's or AS400's by voltage free SPDT contacts
	RS485 ModBus-RTU port	To send UPS status to BMS's by RS485 connection and ModBus-RTU protocol. For telemonitoring and teleservice
	Input terminal block for remote EPO	When the Emergency Power Off (EPO) has to be commanded by a remote control button
	Input terminal block for external manual bypass switch auxiliary contact	When there is an external maintenance bypass switch, for state monitoring
	Input terminal block for external battery switch auxiliary contact	When there is an external battery switch, for state monitoring
	Input terminal block for diesel mode contact	When battery recharge has to be inhibited over genset operation
	Input terminal block for external output circuit breaker	When there is an external output breaker, for status monitoring
	Input terminal block for remote bypass transfer	When the transfer to bypass mode can be commanded by an external contact