UMB AC
Industrial Modular AC Systems
2.5-50 kVA

AC UPS

Borri Modular AC Uninterruptable Power System has been designed for industrial applications from oil & gas, power generation, utilities, water treatment, desalination to transportation, telecom, chemical industries and industrial process control.

UMB AC has been developed to withstand harsh environment and operating conditions of Industrial applications with state-of-the-art technology providing, reliable and customized system solutions with very low MTTR.

With decades of experience in industrial power solutions, Borri offers complete AC modular UPS systems with highly reliable, robust quality and flexible, longest design life.

Industrial Power

Applications

Power Generation.

Power Utility.

Oil & Gas.

Transportation.

Water Desalination.

Marine.

Chemical Industries.

Other Heavy Industries.

Main Features

- LCD display and data interface for monitoring.
- Single, N+1 and N+N configurations.
- Hot Swappable Power Modules for very low MTTR.
- Scalability for future power growth.
- Compact 19'' design and customized engineering.
- High power density.
- Low Current Harmonics (THDi).
- Wide DC voltage range for Ni-Cad Batteries.
- CE and UL marked Modules.

UMB AC
Industrial Modular AC Systems

UMB AC technical data

General								
Rating (kVA)	**2.5**	**5**	**10**	**15**	**20**	**30**	**40**	**50**
Nominal power (kW)	**2**	**4**	**8**	**12**	**16**	**24**	**32**	**40**
Input								
Input voltage	220/230/240 Vac 1-phase ±10%, 380/400/415 Vac 3-phase ±10%, 50/60 Hz ±10%							
Power factor / Input THDi	0,99 @ 50% - 100% Load / THDi <5% @ 100% Load							
Bypass input voltage	220/230/240 Vac 1-phase ±20% or 380/400/415 Vac 3-phase ±20%							
Battery								
DC Output voltage 200÷220 Vac	48 Vdc (43.2 ÷ 60 Vdc range); 110 Vdc (90 ÷ 160 Vdc range); 220 Vdc (180 ÷ 300 Vdc range)							
DC Output voltage 380÷415 Vac	110 Vdc (90 ÷ 160 Vdc range); 220 Vdc (180 ÷ 300 Vdc range)							
Operating battery voltage	Floating: 2.27 (VRLA), 2.2 ÷ 2.3 (VLA), 1.4 ÷ 1.5 (Ni-Cd) V/cell adjustable Boost: 2.4 ÷ 2.45 (VLA), 1.5 ÷ 1.65 (Ni-Cd) V/cell adjustable Equalizing: up to 2.35 (VRLA), up to 2.7 (VLA), up to 1.7 (Ni-Cd) V/cell adjustable							
Output								
Nominal voltage	200/208/220/380/400/415 Vac 3-phase ±1% (Inverter o/p)							
Frequency	50/60 Hz (selectable), ± 0.001 Hz free running, ±2 Hz synchronized with mains							
Voltage regulation	±1% static; ±5% dynamic (80% load change), <40 ms recovery time							
Overload capacity	125% for 10 min; 150% for 1 min; 200% for 100 ms							
Harmonic Distortion THDv	<2% linear load; <5% non-linear load							
System								
Cooling	Forced cooled modules							
Colour	RAL 7035 (others on request)							
Protection degree (IEC 60529)	IP 20 standard (optional up to IP54)							
Efficiency	>90%							
Environmental								
Operating temperature	-10 °C ÷ +40 °C (optional up to 55°C with derating) / Storage: -20 °C ÷ + 70 °C							
Altitude	<2000 m (derating according to EN 62040-3)							
Audible noise at 1 meter (dBA)	≤ 65							
User Interface	Front panel: LCD display, keyboard							
Standards	Test and performance: IEC EN 60146-1-1							
Options	LED mimic. Customizable status and alarms LED set							

Main Options

- In-built galvanic isolation.
- Other AC input voltages.
- Additional Input and Output protection breakers
- DC voltage regulators.
- DC-DC Converters.
- Low Voltage disconnect.
- RS-232 / RS-485 / Ethernet Port / SNMP / WEB Interface.
- Remote control software.
- Built-in DC distribution.
- Built-in Battery Bank.
- Higher protection degrees.
- Special cabinet colours.
- Additional alarms and analogue meters.
- DC Earth fault monitoring.
- Top cable entry.
- Other options on request.

Borri S.p.A. · Via 8 Marzo, 2 · 52011 Bibbiena (AR) Italy · Tel. +39 0575 5351 · info@borri.it
For more information about Borri and its network please visit **www.borri.it**