



Ario Battery Converter

**Complete solution,
ready for installation,
efficient power use**

— ABOUT US

The **MEtaPower Battery Converter** is a three-phase AC-connected converter that, together with a battery system, provides reliable backup power during peak demand times and charges the battery during periods of low demand. Effectively providing utility savings that are maximised through the converters energy arbitrage functionality.

The system can be integrated with an AC generator or connect to a grid to provide efficient power usage. The MEtaPower Battery converter is configurable to ensure optimal storage or generation of power according to the user's requirements.

Tailor the system to your storage or generation needs with its customisable settings. Designed and qualified for land-based installations, the Ario Battery Converter is the smart choice for seamless energy management.

— CONTACT DETAILS



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CONTACT US TODAY

MEtaPower

Key Features

- Wide application range
 - Adaptable for different battery types
 - Integration with other energy sources
 - Diesel Generator integration
 - Power stabilisation due to fast response time
 - Fault Tolerance Protection
- Bi-directional power flow
 - Modbus control
 - Optional remote monitoring
 - AC side contactor
 - Modular Design for custom systems
 - Configurable charge / discharge scheme to suit demand

Battery Converter Datasheet				
Inverter Model	BI-25-80	BI-40-125	BI-55-171	BI-69-215
DC Input Data				
Operating Range	580V – 1000V	580V – 1200V	790V – 1500V	990V – 1500V
Maximum Discharging / Charging Current	260A			
AC Input / Output Data				
Rated Output	80kW	125kW	171kW	215kW
Rated Nominal Voltage	250Vac	400Vac	550Vac	690Vac
Rated Current	180A			
Overload Capability – 30 Min (110%)	88kW	138kW	187kW	237kW
Overload Capability – 10 Min (115%)	92kW	144kW	196kW	247kW
Overload Capability – 1 Min (120%)	96kW	150kW	204kW	258kW
Voltage Range	-15% to +10% Around Nominal Voltage (3/PEN)			
Rate Frequency (Range)	50/60Hz			
Reactive Power / Cos φ	0 – 100% Smax / 0.3 ind. -0.3 cap			
Grid Connected Current THD	<3%			
Off-Grid Voltage THD	<3%			
Crest Factor	1.6			
Efficiency: Maximum European CEC	98.1% 97.1% 97.2%			
Operational Data				
Parallel Operation	Microgrid / Voltage and Frequency Droop Control			
Circuitry Topology	Multilevel			
Protective Functions	Overload Overcurrent Protection Anti-Islanding Under/Overvoltage Over/Under Frequency			
Ambient Temperature	Operating Range: -20C to +60C			
Minimum Distance from Coast	2000m			
Cooling	Temperature-Controlled Fan			
Communications Interfaces				
Interfaces	RS485 [Modus RTU] Ethernet 100BaseTX [Modus TCP/IP] CAN			
Fault Signalling Relay	Potential-free NOC Max. 30V/1A			
Mechanical Data				
Protection Class	IP 66			
Noise Emissions	<80 dB @ 1m			
Dimension HxWxD, mm Weight	953 x 732 x 413 165Kg			
Certification Data				
Safety Grid Connection EMC EMI	IEC 62109-1/-2 NRS 097 IEC 61000-6-4 & IEC 50065-1 IEC 61000-4-2,3,4,5,6,8			