

RMB.e

Features and benefits

- Input transformer for AC-DC galvanic separation
- SCR rectifier, overvoltage, undervoltage protection for reliable operation in all mains conditions
- Soft-start for start-up overcurrent limitation
- Support all charging methods for vented/sealed lead acid batteries and Ni-Cd batteries
- Adjustable manual and automatic charging mode for maximum flexibility on operation
- Standard configurations, for cost-effective and short lead time solutions
- High personalization grade
- Front accessibility for easy maintenance
- 16-bit microprocessor control for best-in-class performance and reliability
- Digital control panel and mimic display for signals, alarms, meters and history events continuous monitoring
- Comprehensive set of communication options for total remote monitoring of equipment operation
- Small size design for easy installation and minimum space requirements
- Parallel operation for redundancy requirements

Main options

- AC surge protection
- Built-in battery breaker
- Timer-controlled battery charging
- Battery voltage temperature compensation
- DC earth fault monitoring and alarm
- Fan monitoring and alarm
- Associated cabinets for batteries, distribution boards, dropping cells or DC/DC chopper converters.

Extra options

- Block diode for parallel operation
- Battery on racks or inside cabinets
- Dedicated buttons and selectors for battery charge functions
- Control logic redundant supply
- Protection degree up to IP41



RMB.e technical data

Rating (A)	50	100	
Input			
Nominal voltage	230 Vac 1-phase ±10%		
Frequency	50/60 Hz ±5 Hz		
Output			
Nominal voltage	24/48/110/Vdc		
Operating 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		
Static voltage regulation	±1%		
Voltage ripple	≤1%		
Overload capacity	<120% for 20 min; <150% for 2 min; >150% for 20 s		
Charging characteristic	IU (according to DIN 41773), I ₁ I ₂ U, U ₁ U ₂ I		
System and environmental			
Isolation	Input/output		
Dimensions WxHxD (mm)	550x1300x550		
Weight (kg)	Product weights vary with output rated current and voltage (see the table below)		
Rating	50	100	
Output voltage	24 Vdc	80	90
	48 Vdc	90	100
	110 Vdc	100	110
Cooling	Forced ventilation		
Colour	RAL 7035		
Protection degree (IEC 60529)	IP21 (option up to IP41)		
Operating temperature	-10 °C ÷ +40 °C		
Storage temperature	-20 °C ÷ +70 °C		
Altitude	<2000 m (derating according to EN 62040-3)		
Audible noise at 1 meter (dBA)	<65		
Options	Associated battery cabinets; matching cabinets for distribution and dropping cells; built-in battery breaker; external battery breakers in standard or Eex-d wall-mounted box; battery thermal probe; block diode for parallel; earth fault alarm; fan monitoring and alarm; control logic redundant supply		
User Interface			
Front panel	LCD display with 4x LED set, mimic and keyboard		
Connectivity (optional)	up to 2 SPDT contact relay cards, RS232 serial port, RS485 ModBus-RTU serial port, ModBus to PROFIBUS DP adapter, Ethernet SNMP/WEB adapter, remote monitoring software		

* 25A size available (more details on request)