



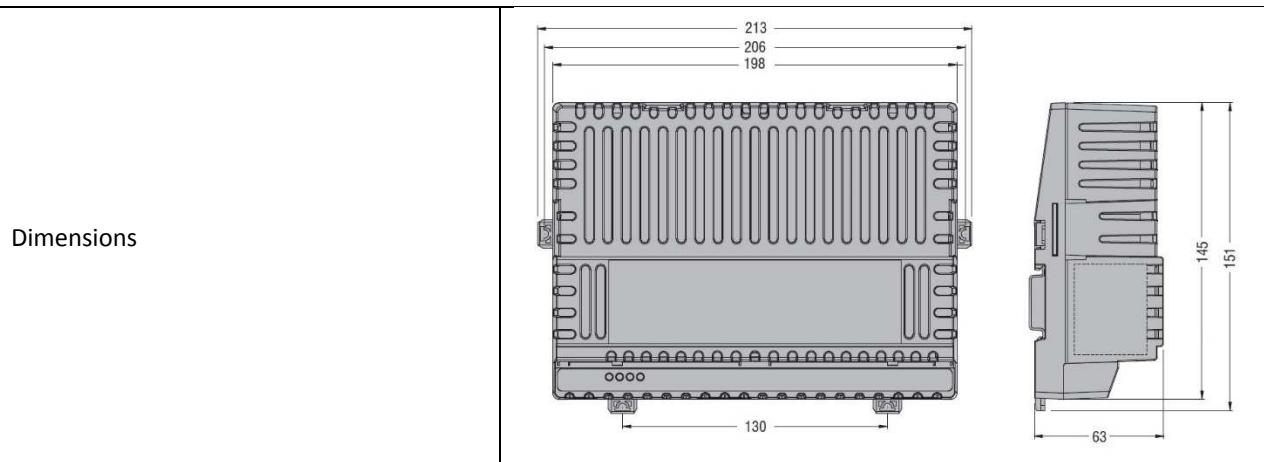
AUTOMATIC BATTERY CHARGERS

TECHNICAL CHARACTERISTICS

Supply					
Model	1BAT004		1BAT005		
Rated voltage Us	110 - 240V				
Operating voltage range	100 - 264V				
Frequency	45 - 66Hz				
Maximum current consumption at rated voltage	240V/1.6A	110V/3.1A	240V/2.7A		
Maximum power consumption at rated voltage	240V 384VA/184W	110V 341VA/190W	240V 630VA/298W		
Maximum power dissipation at rated voltage	240V/23W	110V/29W	240V/28W		
Internal fuse	T6.3A (time delay) 5x20mm				
Battery charger circuit					
Battery voltage	12V=		24V=		
Type of battery	Nickel-Cadmium battery (sealed and non-sealed)				
Rated charging voltage Uc DIP 2 in V1 position	14.2V= (2.37V/cell)		28.4V= (2.37V/cell)		
Boost charging voltage	+4.4%				
Max charging current	12A	10A			
Efficiency at maximum rated voltage and maximum power	≥87.2%	≥90.2%			
Protections	Overload with current limit / Battery polarity inverted / Output shortcircuit				
Output voltage variation related to supply (line regulation)	<1%				
Output voltage variation related to temperature	<1%				
Output voltage variation related to load (load regulation)	<1%				
Ripple and noise	<1%				
Signalling					
1 green LED ON	Power ON				
1 yellow LED CHG	Current charge ≥30% Ic				
1 red LED ALA	Overload and short circuit				
1 red LED REV	Battery reverse polarity				
Insulation					
Rated insulation voltage Ui	250V				
Protection class	Class II / SELV				
Double insulation between the voltage groups	Power supply / Battery Power supply / Enclosure Power supply / Alarm relay				



Power frequency withstand voltage	5kV
Ambient conditions	
Operating temperature	-30...+55°C without derating -30...+70°C with current derating -1.5%lc / °C. +Derating with manual adjustment of the current limiting trimmer
Storage temperature	-30...+80°C
Relative humidity	<80% (IEC/EN 60068-2-78)
Maximum pollution degree	2
Overshoot category	2
Climatic sequence	Z/ABDM (IEC/EN 60068-2-61)
Shock resistance	15g (IEC/EN 60068-2-27)
Vibration resistance	0.7g (IEC/EN 60068-2-6)
Battery connections	
Type of terminal	Screw (fixed)
Conductor cross section (min... max)	0.2 – 6 mm ²
UL Rating - Conductor cross section (min... max)	30 - 10 AWG
Tightening torque	0.5 Nm (5 lbin)
Supply connections	
Type of terminal	Screw (fixed)
Conductor cross section (min... max)	0.2 – 2.5 mm ²
UL Rating - Conductor cross section (min... max)	30 - 12 AWG
Tightening torque	0.5 Nm (4 lbin)
Relay and boost connections	
Type of terminal	Screw (fixed)
Conductor cross section (min... max)	0.2 – 2.5 mm ²
UL Rating - Conductor cross section (min...max)	30 - 12 AWG
Tightening torque	0.5 Nm (4 lbin)
Housing	
Version	Base mount / Internal panel
Material	Polycarbonate
Degree of protection front	IP20
Weight	710g



Certifications and compliance

Certifications obtained	cURus
Reference standards	IEC/EN 60950-1, IEC/EN 61558-2-16 IEC 61000-3-2, IEC/EN 61000-6-2, IEC/EN 61000-6-3, UL 60950-1, CSA C22.2 n° 60950-1