

Features

- Universal input 195~264V AC
- Short Circuit Output Protected
- Approved to UKCA, CE
- LVD & EMC Class B Certified, RoHS & REACH compliant
- 24V Lead Acid 3 Stage Control (Fast/Normal/Float)
- OVP, OCP, OTP Short Circuit
- LED Charge Indicators Included





Ideal Power's 31ACMM24-RS Range of 24V Lead Acid Battery Chargers Series are certified to UKCA, CE, RoHS, REACH & EN 62368-1 Standards and comply with the relevant Efficiency Regulations. These are primarily used in ITE, Audio & Video Industries and customised solutions are available upon request.

Models	31AC1024-RS				
Input Voltage	195~264V AC / 260V AC +/-15%				
Input Frequency	47Hz ~ 63Hz / 50-60Hz +/- 5%				
Input Current		6~12A - 230Vac			
Output Max Current		10A			
Output Power		192W			
Output Voltage	14.6~58.4V DC Float charge / absorption charge				
Ripple & Noise	280 ~ 350 mVp-p (model dependant)				
Float Voltage Start Point	1.2-1.5A (model dependant)				
Isolation	Input isolate Chassis : 500M OHM				
Battery Application	Lead Acid Battery				
LED - Power	Red				
LED - Charging	Orange				
LED – Fully Charged	Green				
DC Cable	1.0M Mount clips				
Dimensions	200 x 180 x 76 (LxWxH) mm				
Weight	3.0 (Kgs)				
Specifications subject to chan	ge without notice.				
Applications					
© Communication devices	Power generators	© UPS	Power Inverters		
Vacuums Pumps	© Sailing boats	© Fork-lift			
© Fire trucks	© Emergency vehicles	© Electrical car & bicycles	Mobile command centres		
Household items	© Communication	Automobiles Automo			

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Equipment's



Environmental Data

	Minimum	Typical	Maximum	Units	Notes
Operating Temperature	0		45	ōC	
Storage Temperature	0		70	ōC	
Operating Humidity	20		90	ōC	
Storage Humidity	10		95	ōC	

EMC Emissions (2014/30/EU)

	Standard	Test Level	Criteria	Notes
Conducted	EN 55032	Pass	В	
Radiated	EN 55032	Pass	В	
Harmonic Current	EN 61000-3-2	Pass	А	
Voltage Flicker	EN61000-3-2	Pass		

EMC Immunity (2014/30/EU)

	Standard	Test Level	Criteria	Notes
EMS	EN 55035	Pass	А	
ESD	IEC 61000-4-2	Pass	В	Contact: +/- 4KV; Air: +/- 8KV
RS	IEC 61000-4-3	Pass	А	Frequency: 80-1000MHz; Field Strength: 3V/M ' 80% AM
EFT	IEC 61000-4-4	Pass	В	1.0KV on input AC power ports
Surges	IEC 61000-4-5	Pass	В	Line to Line: +/- 1KV (peak); Line to F.G: +/- 2KV (peak)
Conducted	IEC 61000-4-6	Pass	А	150KHz to 80MHz 3Vms
PFMF	IEC 61000-4-8	Pass	А	50hZ, 60Hz, 1A/m
Dips and Interruptions	IEC 61000-4-11	Pass	Complies	0%, 70%, 0% of UT

Safety Approvals

Safety standard

EMC Directive 2014/30/EU, LVD Directive 2014/35/EU, RoHS Directive RoHS (EU) 2015/863

CE

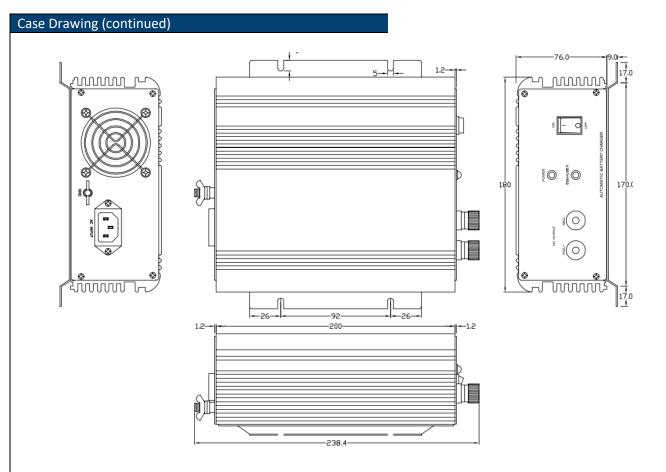
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Three S	Steps of Charging &	Charge Curve		
	Charging Started DC Voltage	Bulk Charge	Absorption Charge Bulk Volts Setting Absorption Time	Float Charge Float Volts Setting
		Battery Charge Rate		3-Stage Battery Charger DC Voltage and AC current Charge Profile
	DC Current	Constant Current	Constant Voltage	Reduced Current and Voltage
		Time		
Step 1	Bulk charge – bring batt During this stage chargi limit.	•	•	num current, until the battery voltage reached the se
Step 2:			nt flow, adjusting for ma creases as the battery ap	ximum efficiency and gently topping off batteries. oproached full charge.
Step 3	Trickle charge is intende current reaches setting to a maintenance charg	ed to keep the batte point the battery sv e at a constant volta	ery in a fully charged sta witches age. Should the battery	s without harmful effects of overcharging and cooking te and compensates for self-discharge. When the be in use and the charge current Subsequently excee g of the three-step charge characteristic.

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AC – DC

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