

### Features

- Universal input 195~264V AC
- Short Circuit Output Protected
- Approved to UKCA, CE
- LVD & EMC Class B Certified, RoHS & REACH compliant
- 12-48V Lead Acid 3 Stage Control (Fast/Normal/Float)
- OVP, OCP, OTP & amp; Short Circuit
- LED Charge Indicators Included



Ideal Power's 31ACNN12\_24\_36\_48-RS Range of 12-48V 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	31AC3512-RS	31AC2024A-RS *	31AC1048-RS			
Input Voltage	195~264V AC / 230V AC +/-15%	90~264V AC / 230V AC +/-15%	195~264V AC / 230V AC +/-159			
Input Frequency	47Hz ~ 63Hz / 50-60Hz +/- 5%					
Input Current (A)	6.5	6	6.5			
Inrush Current (A)	80	100	80			
Output Max Current	35A	20A	10A			
Output Power	525W	600W	600W			
Output Voltage	13.7~14.6	27.4~29.2	54.8~58.4			
Ripple & Noise (mVp-p)	350	300	350			
Isolation	Input isolate Chassis : 500M OHM					
Battery Application	Lead Acid Battery					
Fan Control	Fan on fast speed: Bulk/Absorption charge Fan on slow speed: Float charge					
LED - Power	Red					
LED - Charging	Orange					
LED – Fully Charged	Green					
DC Cable	1.0M Mount clips					
Dimensions	278 x 170 x 76 (LxWxH) mm					
Weight	Зкд					
Specifications subject to cha	nge without notice.					
Applications						
© Communication devices	Power generators	© UPS	Power Inverters			
O Vacuums Pumps	© Sailing boats	© Fork-lift				
<ul><li>© Fire trucks</li><li>© Household items</li></ul>	<ul> <li>Emergency vehicles</li> <li>Communication</li> <li>Equipment's</li> </ul>	© Electrical car & bicycles © Mobile command cen © Automobiles				

NOTE: \*This version is with a Universal Input

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#### 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	A	
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(1KHz)
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

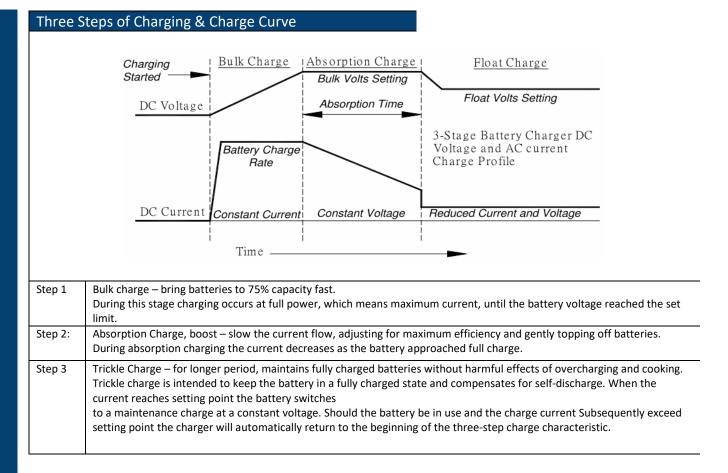
#### Safety Approvals

Safety standard

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

CE





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