

Features

- 3 Stage Charge Control (Fast/Normal/Float)
- Automatic transfer to Float Voltage on Full charge
- Reverse Polarity Protected
- Short Circuit Output Protected
- Input 230Vac 50/60Hz
- LED Charge Indicators Included
- Comes with fused UK & EU Mains Lead
- Compliant to LVD & EMC safety standards
- RoHS & CE Directive Compliant



Ideal Power's 31AC3024-RS Lead Acid Battery Charger DC Cord 1.0M fitted with Clips are certified to CE & RoHS EN 62368-1/IEC 62368-1/UL 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	31AC3024-RS
Output Max Current	30A
Output Current	29.2V DC
Output Power	900W
Efficiency	81%
Input Voltage	195V ~ 264V universal
Input Frequency	47Hz ~ 63Hz
Input Current	6.9A
Inrush Current	100A
Output Voltage	13.7~29.2V DC
Working Temperature	0 ~ 45 °C
Ripple & Noise	500mVp-p
Battery Application	Lead Acid Battery
LED – Power on	Red
LED – Charging	Orange
LED - Charged	Green
Isolation	Input isolate Chassis : 500M OHM
MTBF	30,000hrs
Mains Lead	1.8M EURO Plug + 1.8M UK Fuse Plug
DC Cable	SPT2, 18AWG 2C at DC Cord 1.2M fitted with XLR (P1:+/P2:-)
Dimensions	180 x 88 x 47 (LxWxH) mm
Weight	0.8 (Kgs)
Safety	CE, CUL

Specifications subject to change without notice.

Applications

- | | | | |
|-------------------------|-----------------------------|-----------------------------|--------------------------|
| Ⓞ Communication devices | Ⓞ Power generators | Ⓞ UPS | Ⓞ Power Inverters |
| Ⓞ Vacuums Pumps | Ⓞ Sailing boats | Ⓞ Fork-lift | Ⓞ Ambulance |
| Ⓞ Fire trucks | Ⓞ Emergency vehicles | Ⓞ Electrical car & bicycles | Ⓞ Mobile command centres |
| Ⓞ Household items | Ⓞ Communication Equipment's | Ⓞ Automobiles | |

Environmental Data

Item	Operating Conditions	Min.	Typ.	Max.	Unit
Operating Temperature		0	--	45	°C
Storage Temperature		0	--	70	°C
Operating Humidity		20	--	90	°C
Storage Humidity		10	--	95	°C

Mechanical Specifications

Case material	aluminium impact resistant casing.
Weight	5.0 kg
Dimensions	410.4x204x85mm (refer to mechanical drawing)

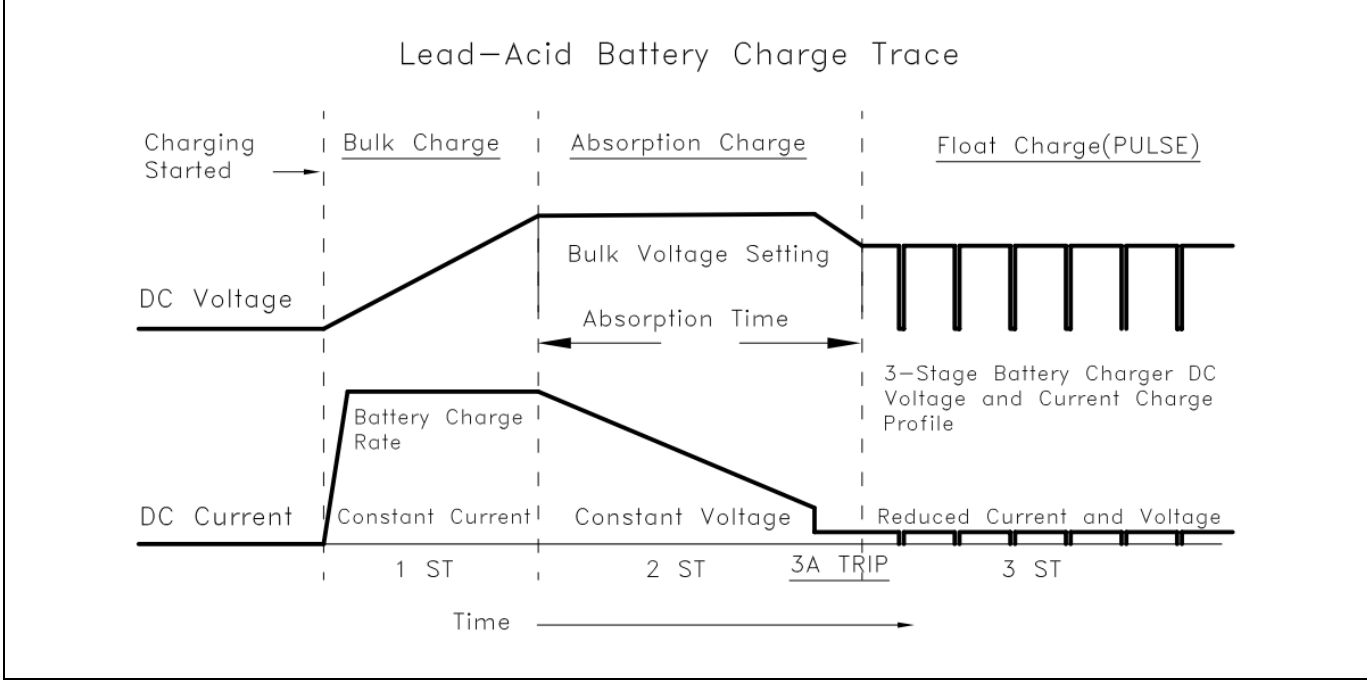
EMC Emissions

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

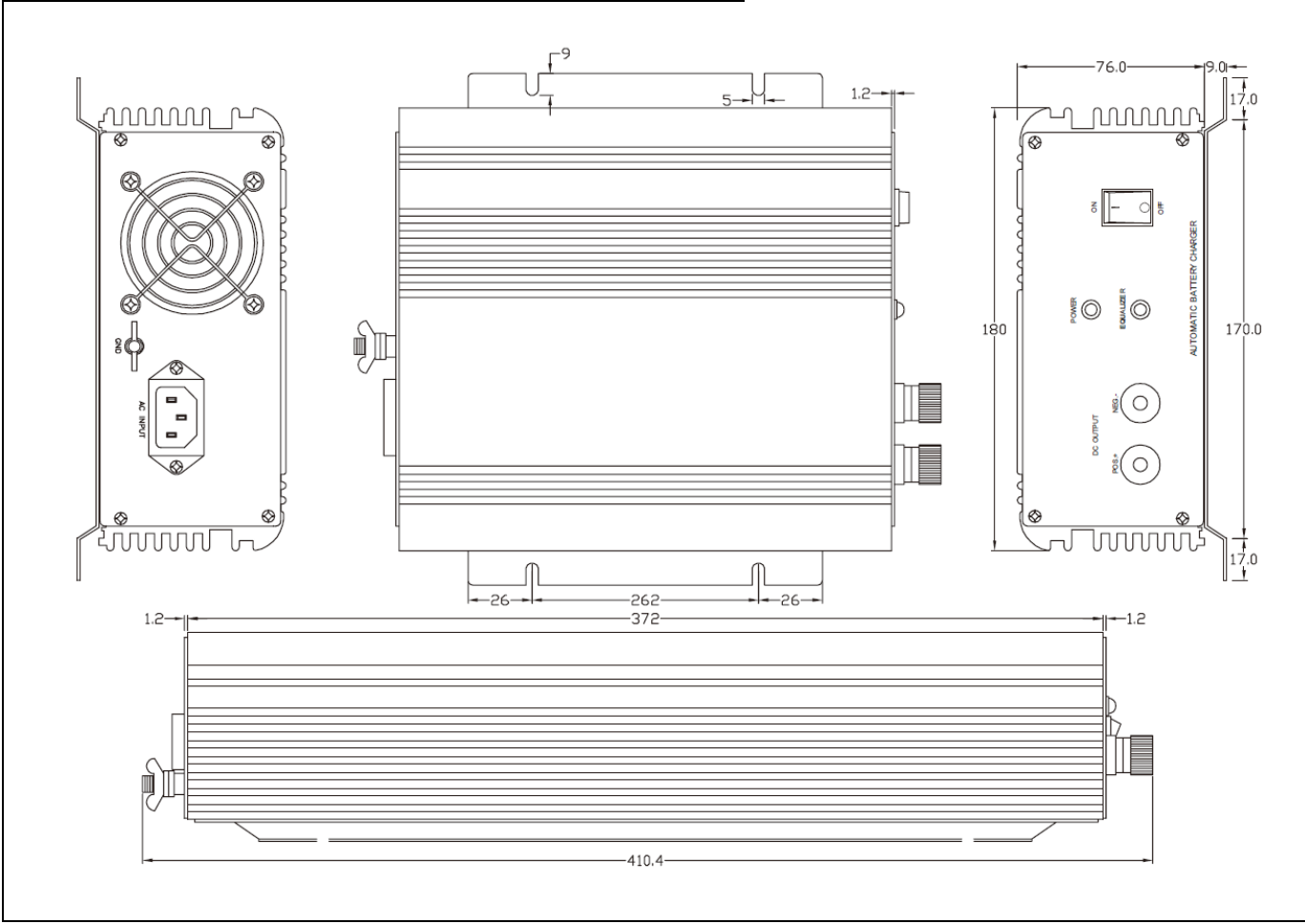
EMC Immunity

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

Charge Curve



Dimensions and Recommended Layout



DC - DC