

## Features

- Universal input 115~230V AC
- Approved to UKCA, CE & RoHS
- LVD & EMC Class B Certified, RoHS compliant
- 12V Lead Acid 3 Stage Control (Fast/Normal/Float)
- OVP, OCP, OTP, SCP
- LED Charge Indicators Included



Ideal Power's 31AC1024-RS 24V Lead Acid Battery Chargers Series are certified to UKCA, CE, RoHS & Standards and comply with Efficiency Regulations. These are primarily used in ITE, Audio & Video Industries and customised solutions are available upon request.

Models	31AC1024-RS
Input Voltage	115~230V AC
Input Frequency	47Hz ~ 63Hz / 50-60Hz +/- 5%
Input Current	2.8 A Max for 230 Vac
Max Charging Current	10 A $\pm$ 0.2 A
Output Power	240W
Output Voltage	29.2 Vdc $\pm$ 0.2 V (Absorption Charge) 27.4 Vdc $\pm$ 0.2 V (Float Charge)
Ripple & Noise	450 mVp-p
Battery Application	Lead Acid Battery
LED - Power	Red
LED - Charging	Orange
LED - Fully Charged	Green
DC Cable	16AWG / UL 1015 Red & Black wires at 1.0 M mount Clips
AC Cable	UK fuse type at 1.8M + Euro type at 1.8M
Dimensions	238.4 x 204 x 85 (LxWxH) mm
Weight	2.75 (Kgs)

Specifications subject to change without notice.

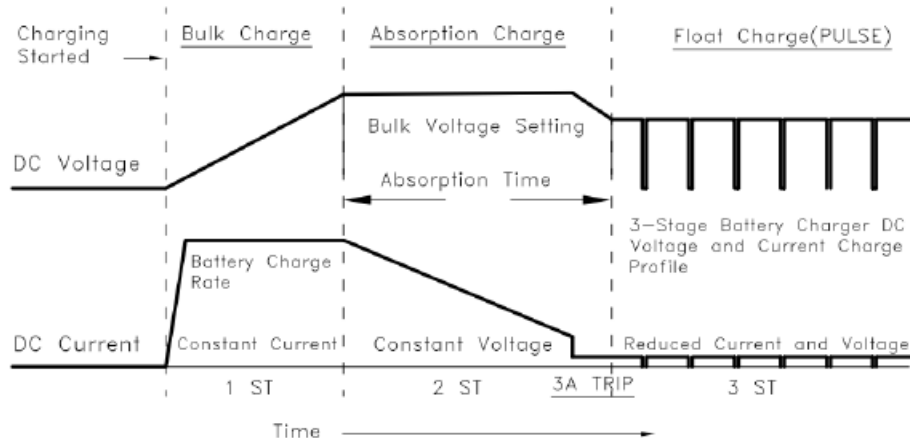
### Applications

<ul style="list-style-type: none"> <li>⊙ Communication devices</li> <li>⊙ Vacuums Pumps</li> <li>⊙ Fire trucks</li> <li>⊙ Household items</li> </ul>	<ul style="list-style-type: none"> <li>⊙ Power generators</li> <li>⊙ Sailing boats</li> <li>⊙ Emergency vehicles</li> <li>⊙ Communication Equipment's</li> </ul>	<ul style="list-style-type: none"> <li>⊙ UPS</li> <li>⊙ Fork-lift</li> <li>⊙ Electrical car &amp; bicycles</li> <li>⊙ Automobiles</li> </ul>	<ul style="list-style-type: none"> <li>⊙ Power Inverters</li> <li>⊙ Ambulance</li> <li>⊙ Mobile command centres</li> </ul>
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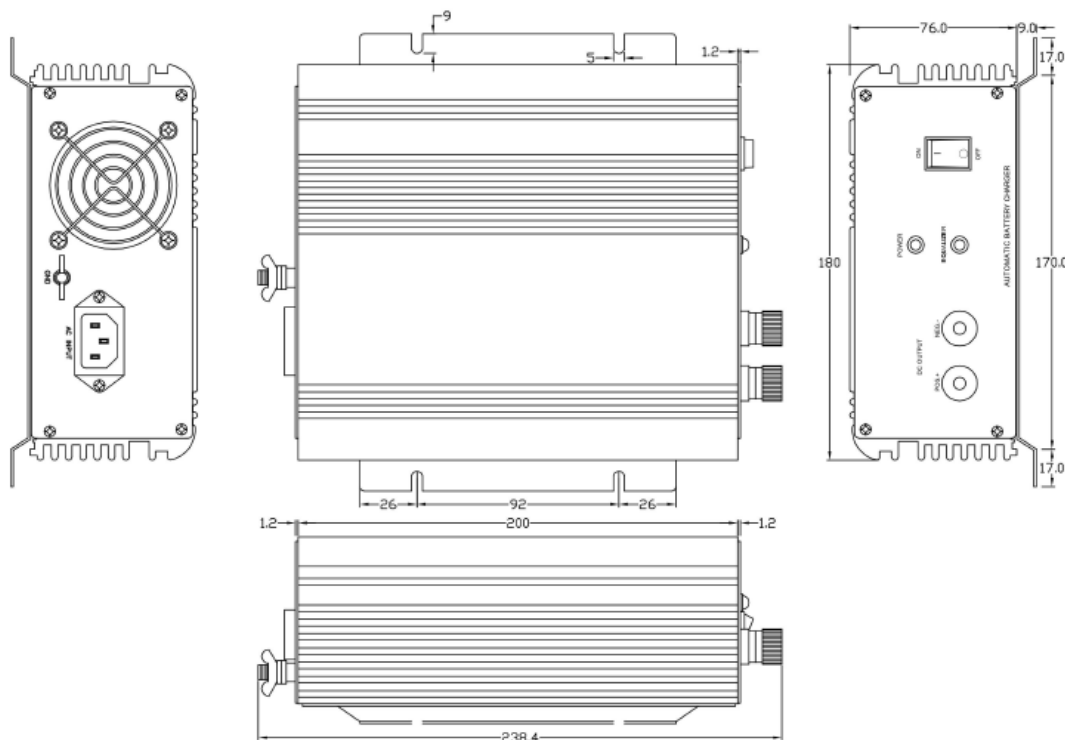
14 Larks Way, Tree Beech Enterprise Park, Gunn, Barnstaple, Devon, England, EX32 7NZ.  
[www.idealpower.co.uk](http://www.idealpower.co.uk) | [salesupport@idealpower.co.uk](mailto:salesupport@idealpower.co.uk) | +44 (0) 1733 309865

## Three Steps of Charging & Charge Curve



Step 1	Bulk charge – bring batteries to 75% capacity fast. During this stage charging occurs at full power, which means maximum current, until the battery voltage reached the set limit.
Step 2:	Absorption Charge, boost – slow the current flow, adjusting for maximum efficiency and gently topping off batteries. During absorption charging the current decreases as the battery approached full charge.
Step 3	Trickle Charge – for longer period, maintains fully charged batteries without harmful effects of overcharging and cooking. Trickle charge is intended to keep the battery in a fully charged state and compensates for self-discharge. When the current reaches setting point the battery switches to a maintenance charge at a constant voltage. Should the battery be in use and the charge current Subsequently exceed setting point the charger will automatically return to the beginning of the three-step charge characteristic.

## Case Drawing

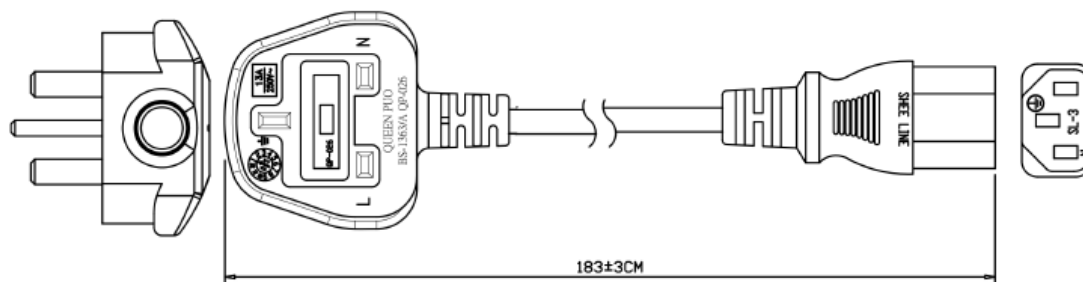


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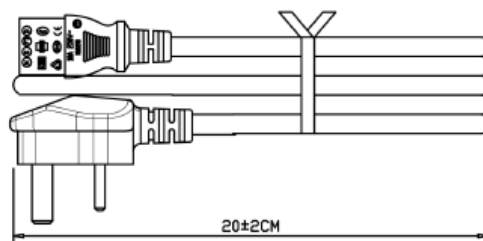
### UK Plug Drawing

H05VV-F 0.75mm<sup>2</sup>/3G183cm QP-026+SL-3



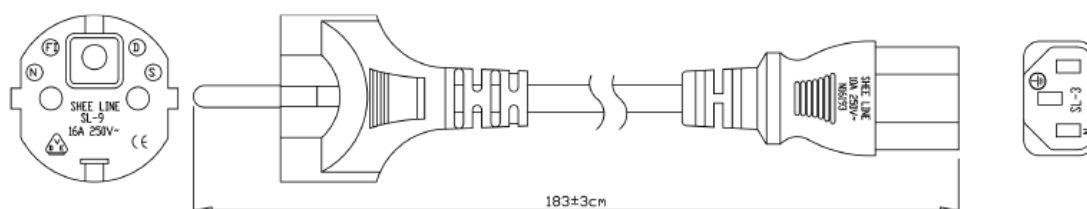
#### SPECIFICATION :

- (1) LENGTH : 1.83M
- (2) COLOR : BLACK
- (3) PLUG : QP-026 (A)13 (V)250 APPROVAL: KEMA BS1363
- (4) CONNECTOR: SL-3 (A)10 (V)250 APPROVAL:EUR
- (5) CABLE : H05VV-F0.75mm<sup>2</sup>/3G APPROVAL:EUR



### EURO Plug Drawing

H05 0.75mm<sup>2</sup>/3G SL-3+SL-9



#### SPECIFICATION :

- (1) LENGTH : 1.83M
- (2) COLOR : BLACK
- (3) PLUG : SL-3 (A)10 (V)250 APPROVAL:EUROPEAN
- (4) CONNECTOR: SL-9(A)16 (V)250 APPROVAL: EUROPEAN
- (3) CABLE : H05 0.75mm<sup>2</sup>/3G APPROVAL: EUROPEAN

