

Features

- Universal input 100-240VAC
- Output Power: 48-144W
- Aluminium Enclosure
- Approved to UKCA, CE
- LVD & EMC Class B Certified, RoHS & REACH compliant
- 12V Lead Acid 3 Stage Control (Fast/Normal/Float)
- OVP, OCP, OTP Short Circuit



Ideal Power's 31ACWW12A-RS Range of 12V 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 | 31AC0412A-RS | 31AC0512A-RS | 31AC0812A-RS | 31AC1012A-RS | 31AC1212A-RS |
|----------------------|--|--------------|--------------|--------------|--------------|
| Output Max Current | 4A | 5A | 8A | 10A | 12A |
| Output Power | 48W | 60 | 96W | 120W | 144W |
| Input Voltage | 100V ~ 240V universal | | | | |
| Input Frequency | 47Hz ~ 63Hz | | | | |
| Output Equalizer | 14.6 Vdc ± 0.2 V | | | | |
| Output Float | 13.7 Vdc ± 0.2 V | | | | |
| Max Charging Current | 2A +/- 0.2A | | | | |
| Working Temperature | 0 ~ 45 °C | | | | |
| Hold up Time | 8 ms at full load output power and 115 Vac input | | | | |
| Battery Application | Lead Acid Battery | | | | |
| LED – Power on | Red | | | | |
| LED – Charging | Orange | | | | |
| LED - Charged | Green | | | | |
| Mains Lead | 1.8M EURO Plug + 1.8M UK Fuse Plug | | | | |
| DC Cable | SPT2, 18AWG 2C at 1.2M mount clips | | | | |
| Dimensions | 180 x 88 x 47 (LxWxH) mm | | | | |
| Weight | 0.8 (Kgs) | | | | |
| Safety | CE, CUL | | | | |

Specifications subject to change without notice.

Applications

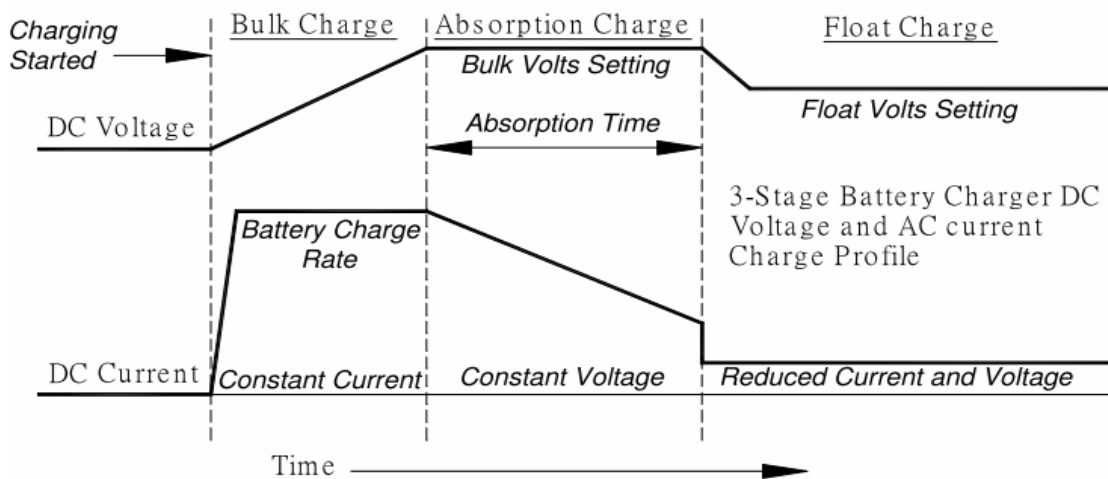
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|-------------------------|-----------------------------|-----------------------------|--------------------------|
| Ⓞ Communication devices | Ⓞ Power generators | Ⓞ UPS | Ⓞ Power Inverters |
| Ⓞ Vacuums Pumps | Ⓞ Sailing boats | Ⓞ Fork-lift | Ⓞ Ambulance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

Ideal Power Limited

14 Larks Way, Tree Beech Enterprise Park, Gunn, Barnstaple, Devon, England, EX32 7NZ.

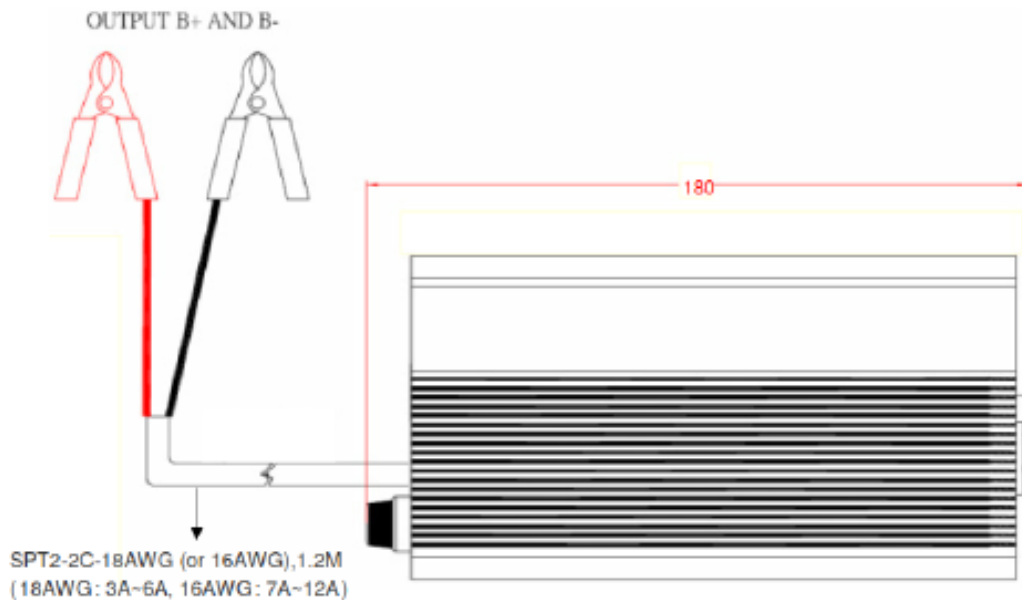
www.idealpower.co.uk | +44 (0) 845 260 3400

Three Steps of Charging & Charge Curve

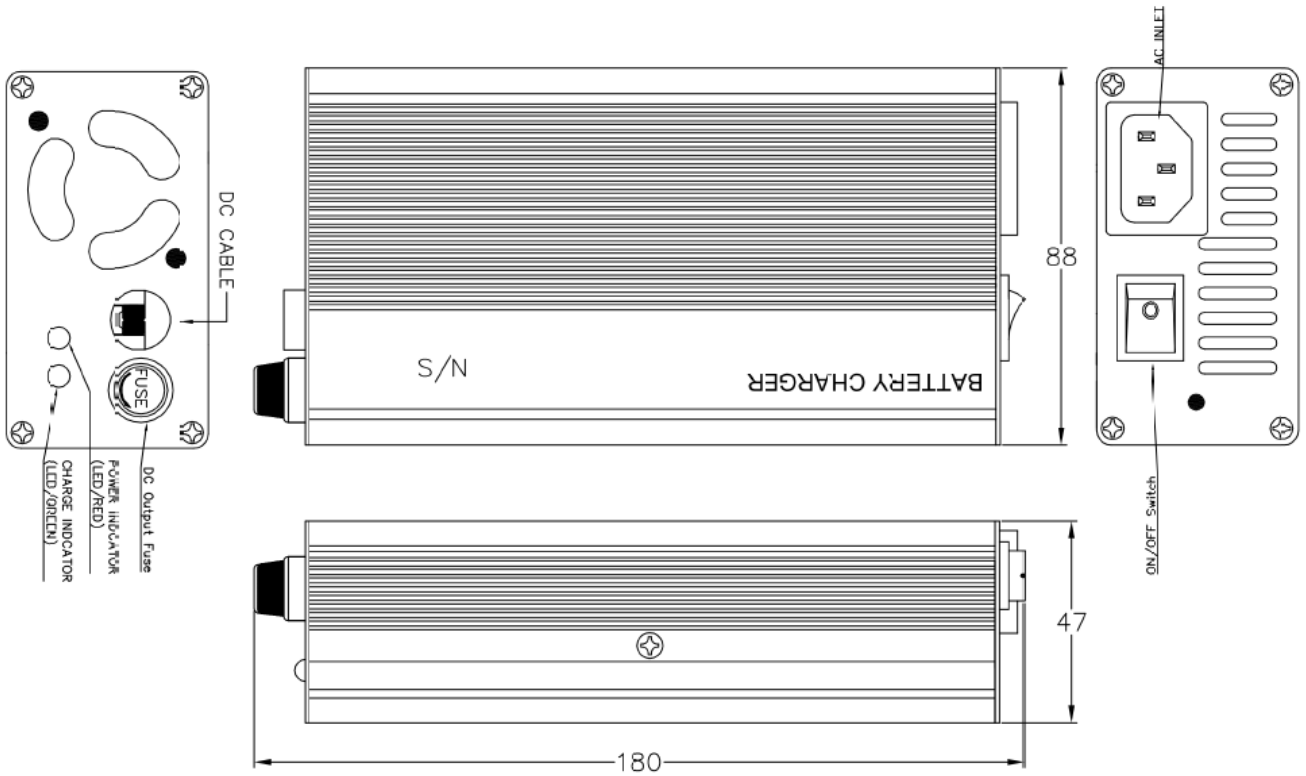


| | |
|---------|---|
| Step 1 | Bulk charge – bring batteries to 75% capacity fast. During this stage charging occurs at full power, which means maximum current, until the battery voltage reached the set limit. |
| Step 2: | Absorption Charge, boost – slow the current flow, adjusting for maximum efficiency 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. |

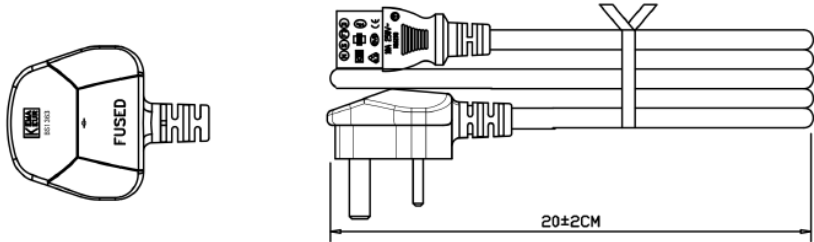
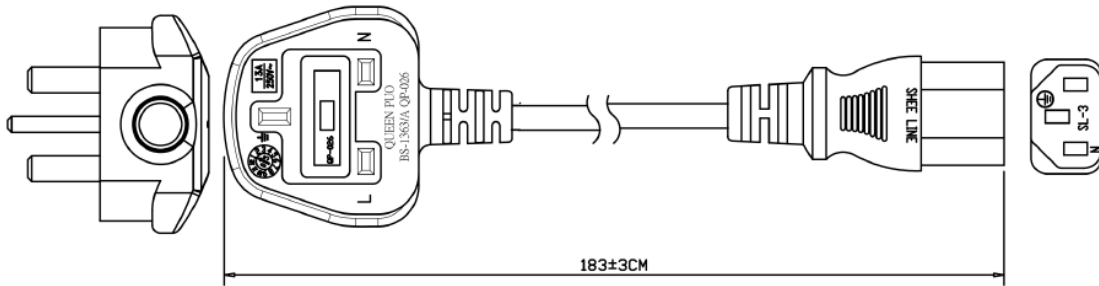
Case Drawing



Case Drawing



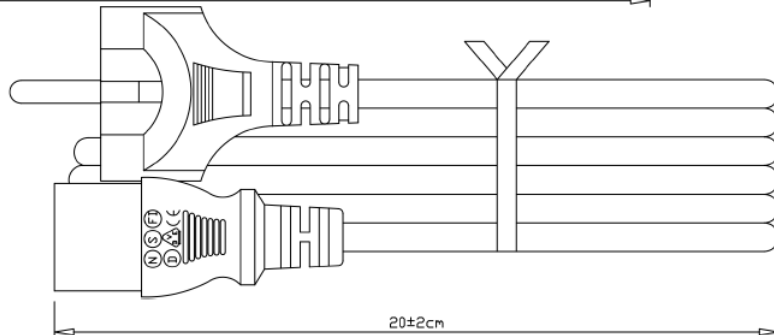
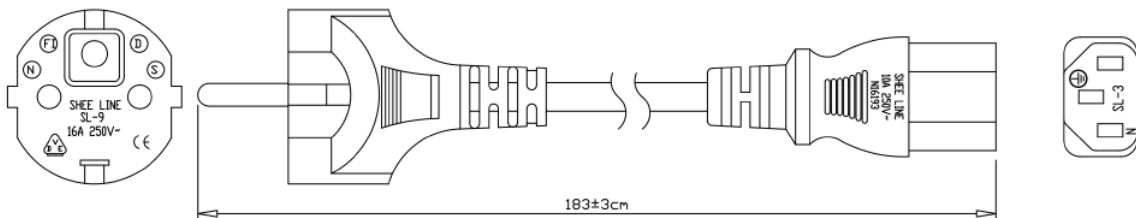
Mains Lead UK



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-F0.75mm²/3G APPROVAL:EUR

Mains Lead EURO



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
- (5) CABLE : H05 0.75mm²/3G APPROVAL: EUROPEAN