

## Features

- Universal input 100-240VAC
- Output Power: 36-144W
- Plastic 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
- Dimensions: Dependent on Model
- Weight: Dependent on Model



Ideal Power's 31ACWW12A-IP 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.

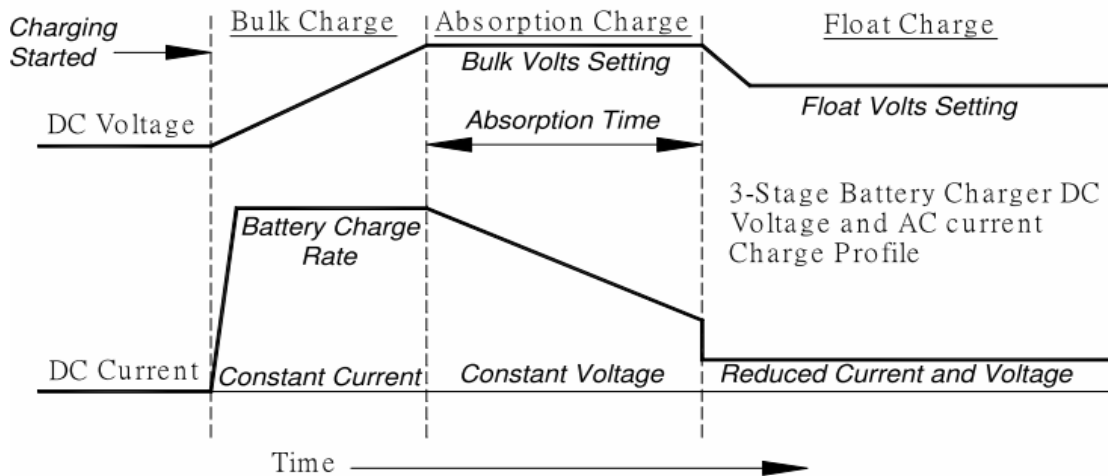
Models	31AC0412A-IP	31AC0512A-IP
Output Max Current	4A	5A
Output Power	48W	60
Input Voltage	100V ~ 240V universal	
Input Frequency	47Hz ~ 63Hz	
Output Equalizer	14.6 Vdc ± 0.2 V	
Output Float	13.7 Vdc ± 0.2 V	
Max Charging Current	2A +/- 0.2A	
Working Temperature	0 ~ 45 °C	
Hold up Time	8 ms at full 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

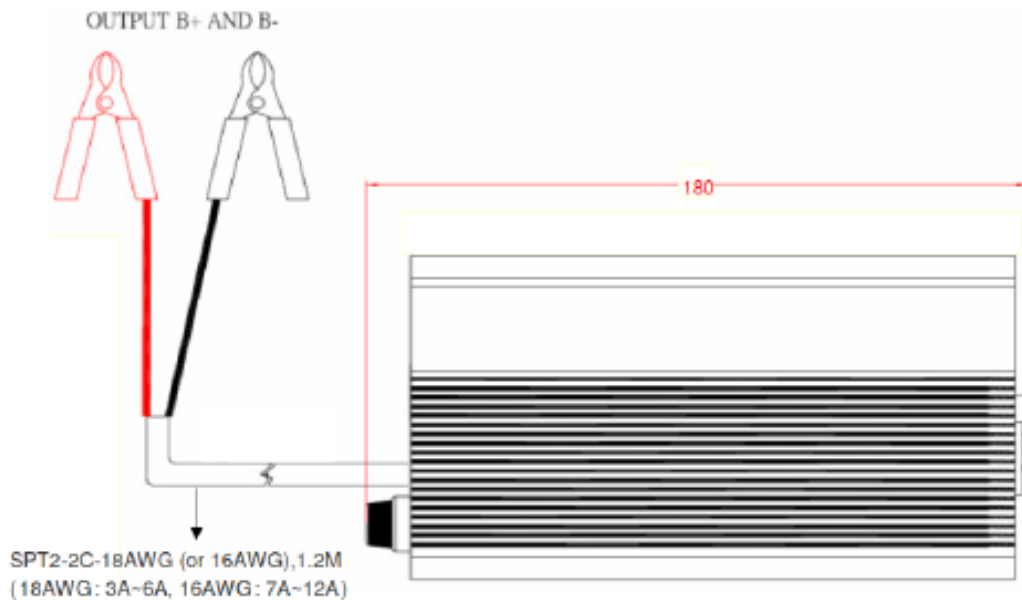
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|-------------------------|-----------------------------|-----------------------------|--------------------------|
| Ⓞ Communication devices | Ⓞ Power generators          | Ⓞ UPS                       | Ⓞ Power Inverters        |
| Ⓞ Vacuums Pumps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

**Three Steps of Charging & Charge Curve**

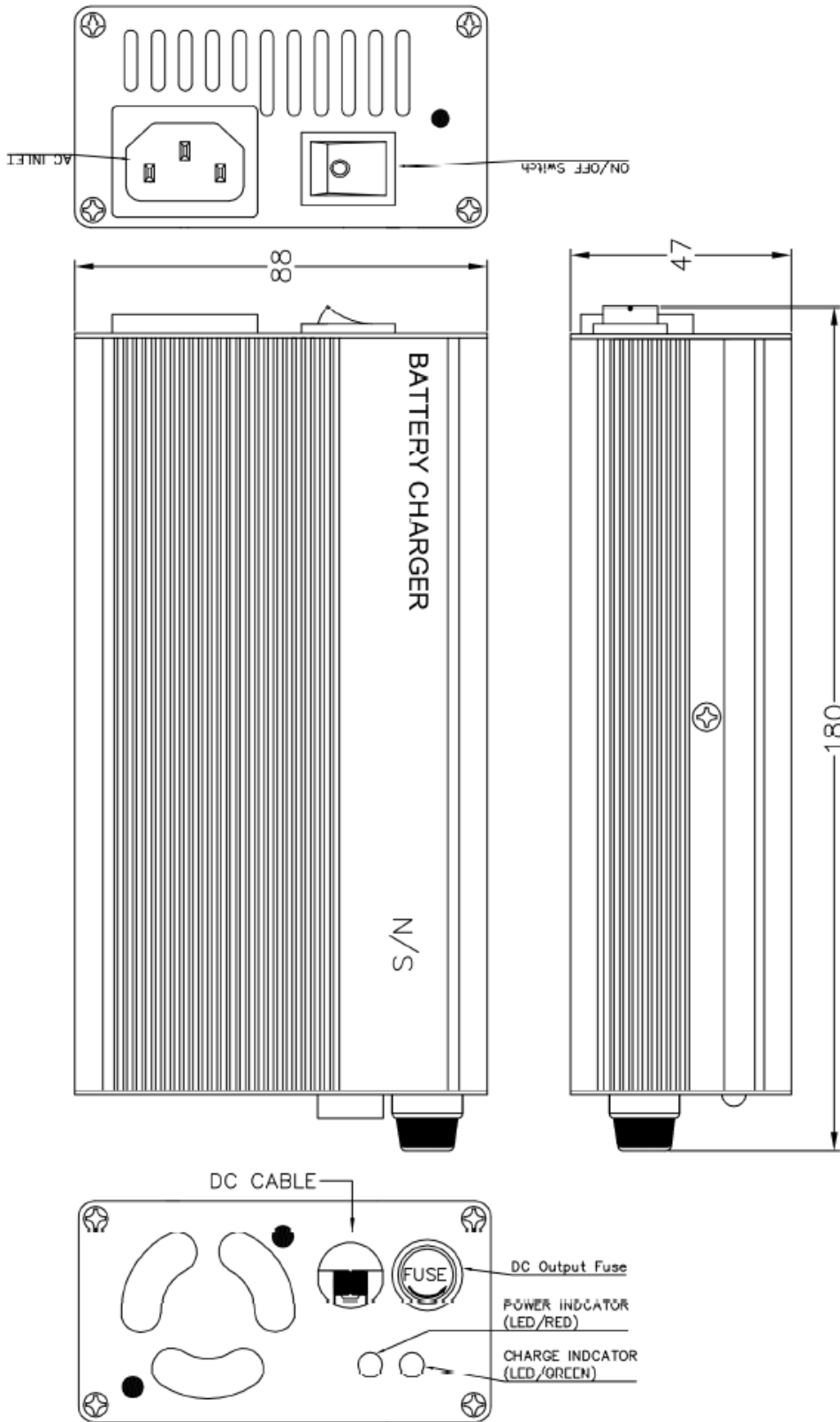


Step 1	Bulk charge – bring batteries to 75% capacity fast. During this stage charging occurs at full power, which means maximum current, until the battery voltage reached the set limit.
Step 2:	Absorption Charge, boost – slow the current flow, adjusting for maximum efficiency and gently topping off batteries.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



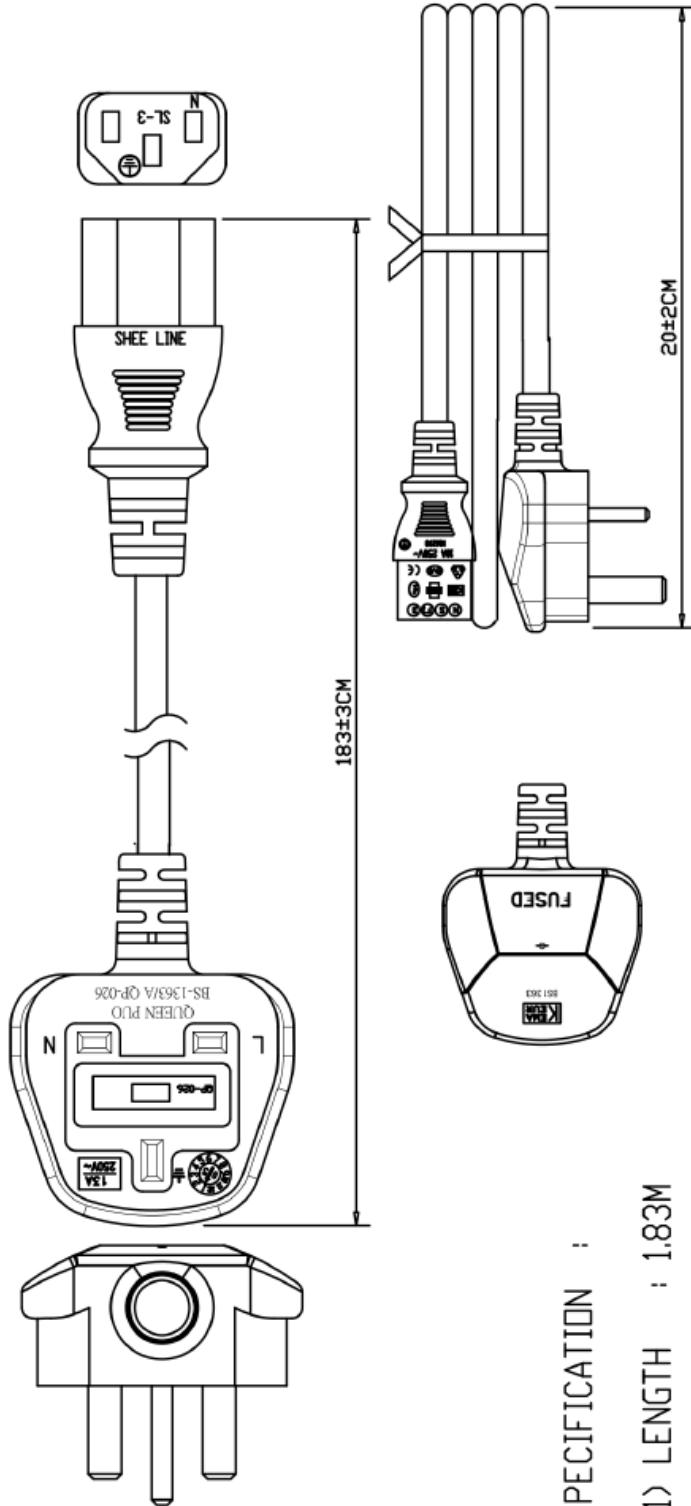
Case Drawing



AC - DC

Mains Lead UK

AC - DC



- 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 EU

