

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.

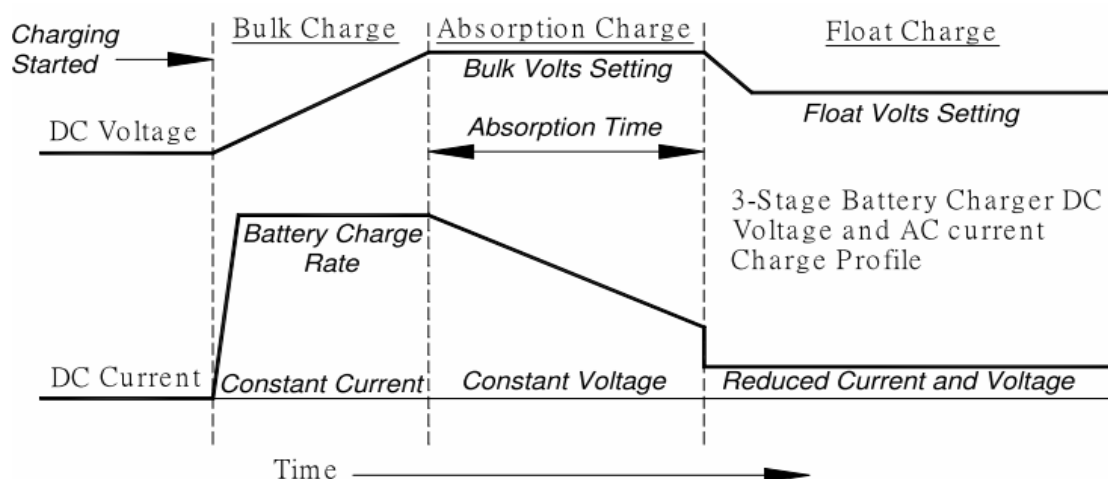
Models	31AC0412A-RS	31AC0512A-RS	31AC0812A-RS	31AC1012A-RS	31AC1212A-RS
Output Max Current	4A	5A	8A	10A	12A
Output Power	48W	60	96W	120W	144W
Input Voltage	100V ~ 240V universal				
Input Frequency	47Hz ~ 63Hz				
Output Equalizer	14.6 Vdc \pm 0.2 V				
Output Float	13.7 Vdc \pm 0.2 V				
Max Charging 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

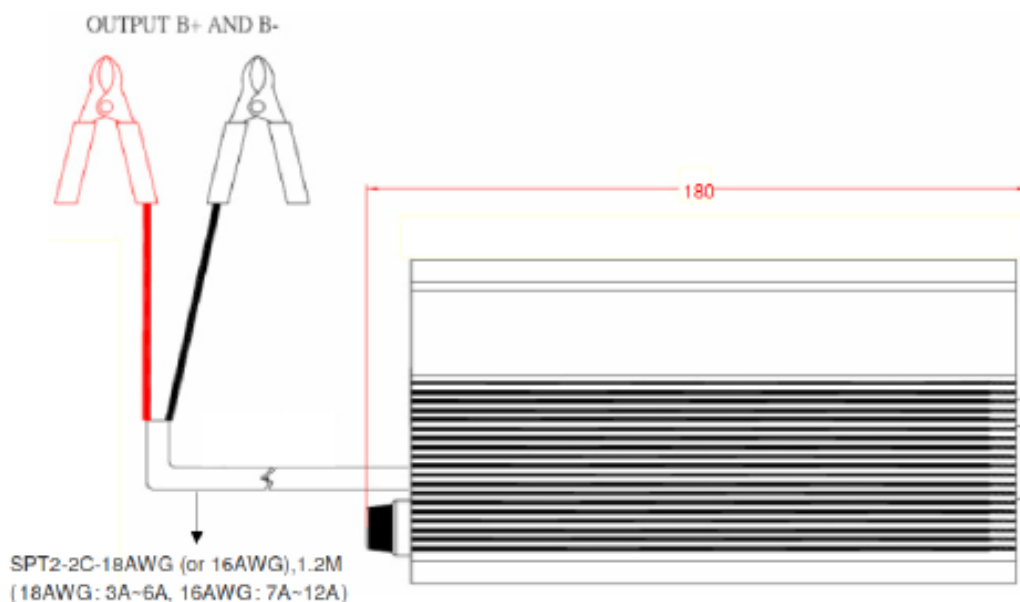
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Three Steps of Charging & Charge Curve

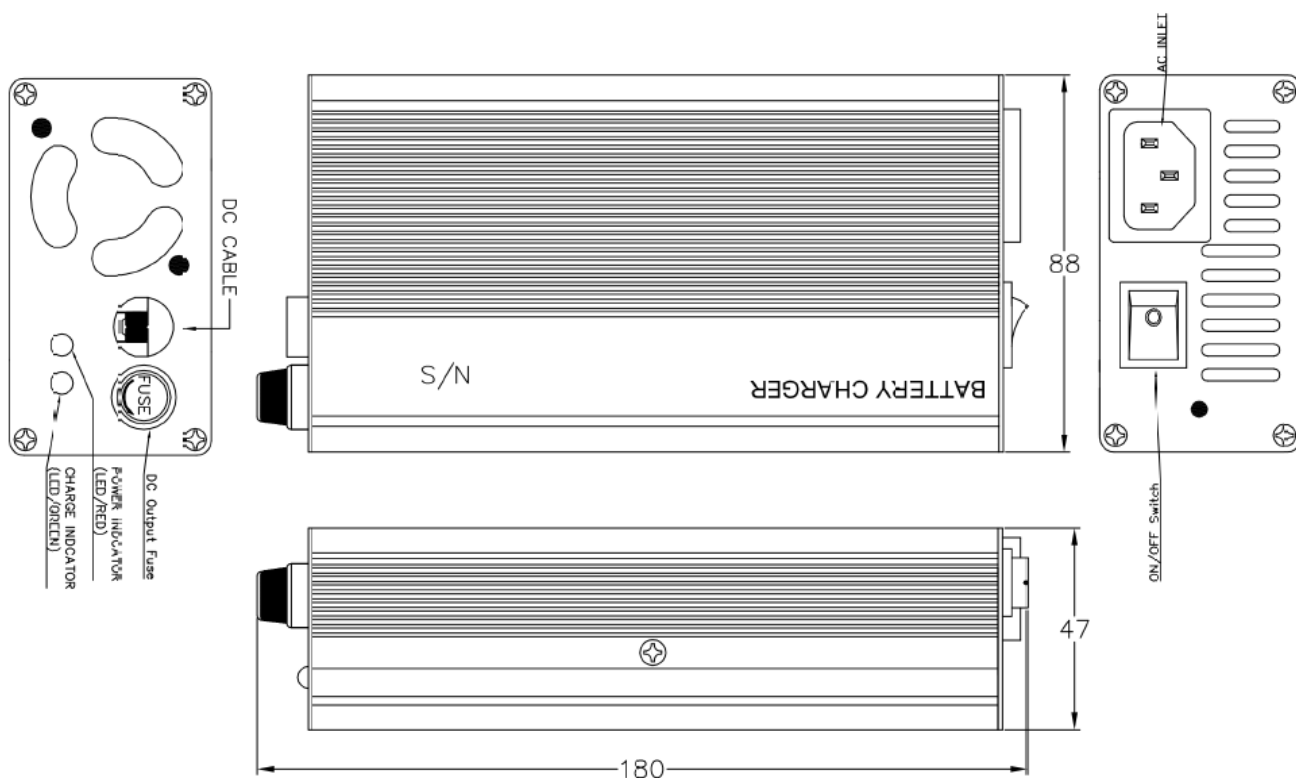


Step 1	Bulk charge – bring batteries to 75% capacity fast. During this stage charging occurs at full power, which means maximum current, until the battery voltage reached the set limit.
Step 2:	Absorption Charge, boost – slow the current flow, adjusting for maximum efficiency and gently topping off batteries.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

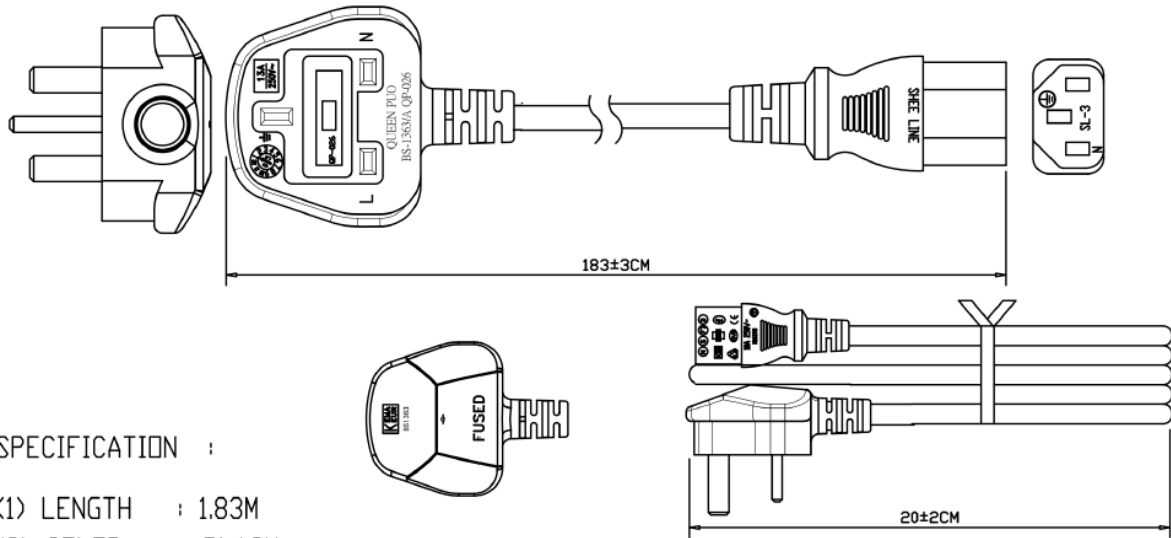
Case Drawing



Case Drawing



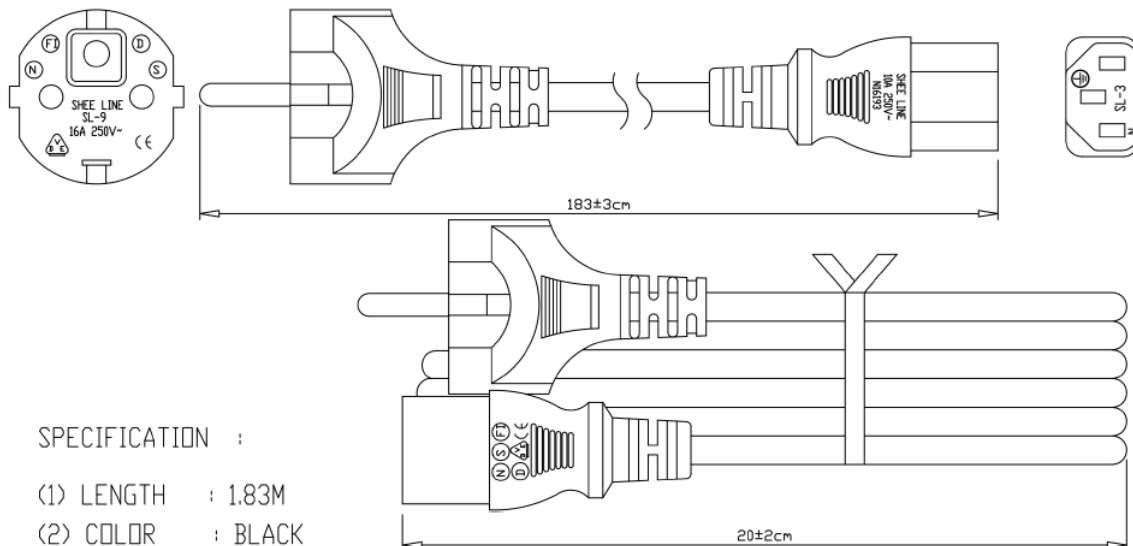
Mains Lead UK



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