

Features

- Universal input 100-240VAC
- Output Power: 72-168W
- Aluminium Enclosure
- Approved to UKCA, CE
- LVD & EMC Class B Certified, RoHS & REACH compliant
- 24V Lead Acid 3 Stage Control (Fast/Normal/Float)
- OVP, OCP, OTP & Short Circuit
- Dimensions: Dependent on Model
- Weight: Dependent on Model



Ideal Power's 31ACXX24A-IP Range of 24V 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.

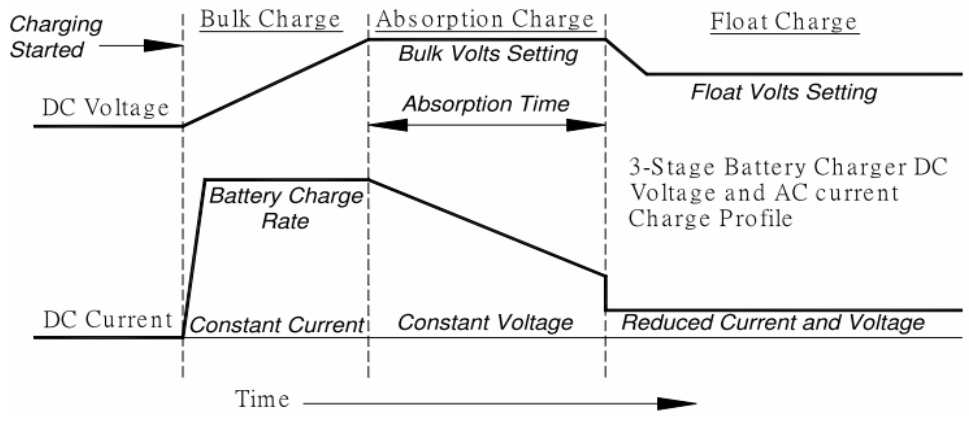
Models	31AC0424A-IP	31AC0524A-IP
Input Voltage	115V / 230V Auto Switch	
Input Frequency	47Hz ~ 63Hz	
Output Max Current	4Amp	5Amp
Output Power	96W	120
Output Equalizer	29.2V +/- 0.2V (Can be order specific)	
Output Float	27.4V +/- 0.2V (Can by order specific)	
Battery Application	Lead Acid Battery	
LED - Power	Red	
LED - Charging	Orange	
LED - Fully Charged	Green	
Mains Lead	1.8M EURO Plug + 1.8M UK fuse Plug	
DC Cable	SPT2 2C 18AWG at 1.2M Mount clips	
Dimensions	180 x 88 x 47 (LxWxH) mm	
Weight	0.8 (Kgs)	

Specifications subject to change without notice.

Applications

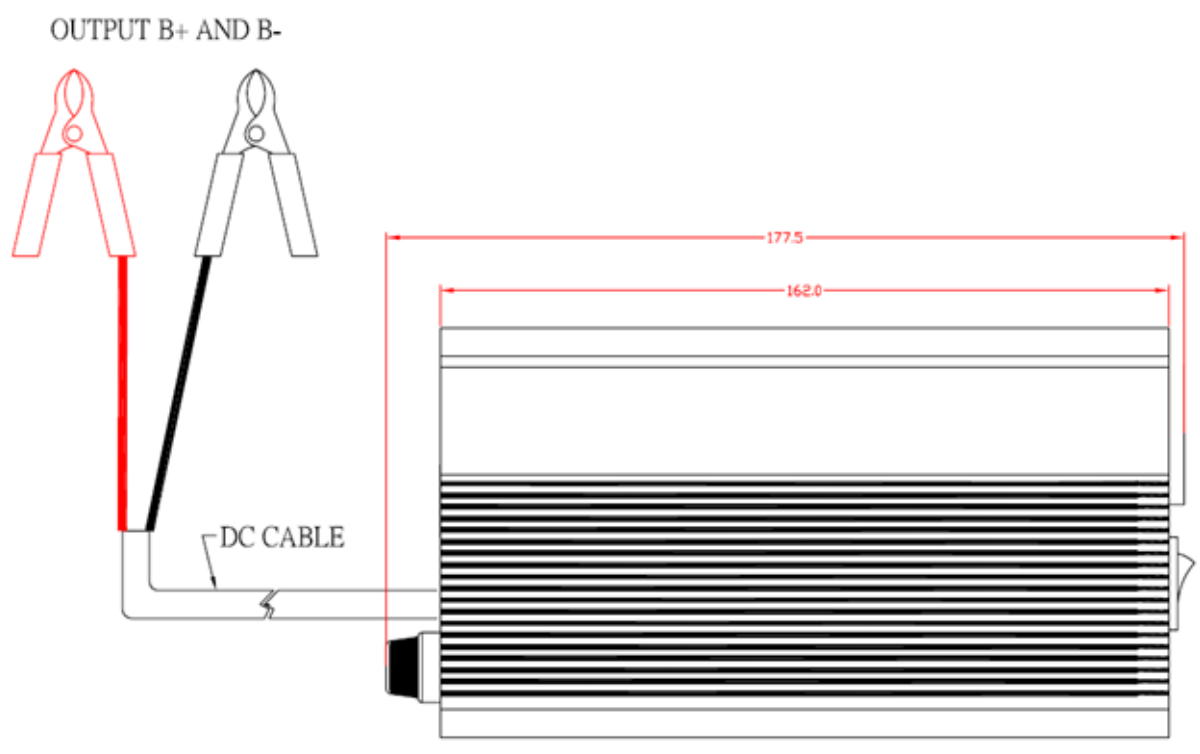
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|-------------------------|-----------------------------|-----------------------------|--------------------------|
| Ⓞ Communication devices | Ⓞ Power generators | Ⓞ UPS | Ⓞ Power Inverters |
| Ⓞ Vacuums Pumps | Ⓞ Sailing boats | Ⓞ Fork-lift | Ⓞ Ambulance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

Three Steps of Charging & Charge Curve



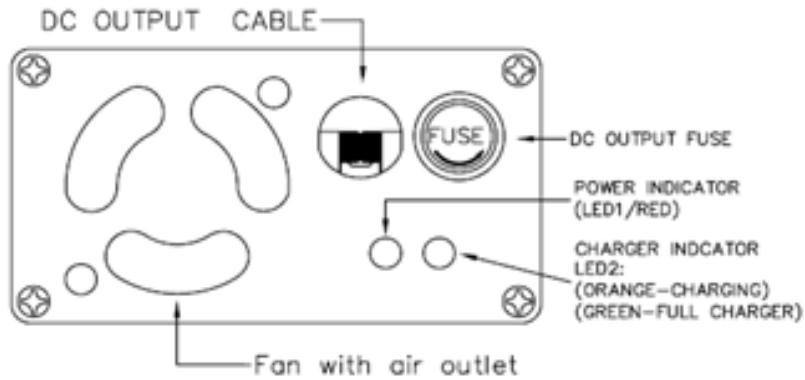
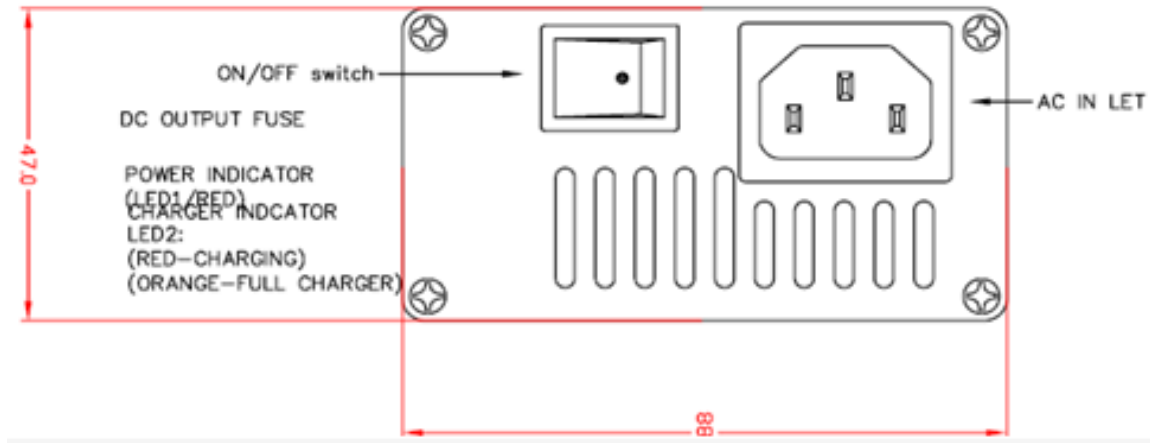
Step 1	Bulk charge – bring batteries to 75% capacity fast. During this stage charging occurs at full power, which means maximum current, until the battery voltage reached the set limit.
Step 2:	Absorption Charge, boost – slow the current flow, adjusting for maximum efficiency and gently topping off batteries.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



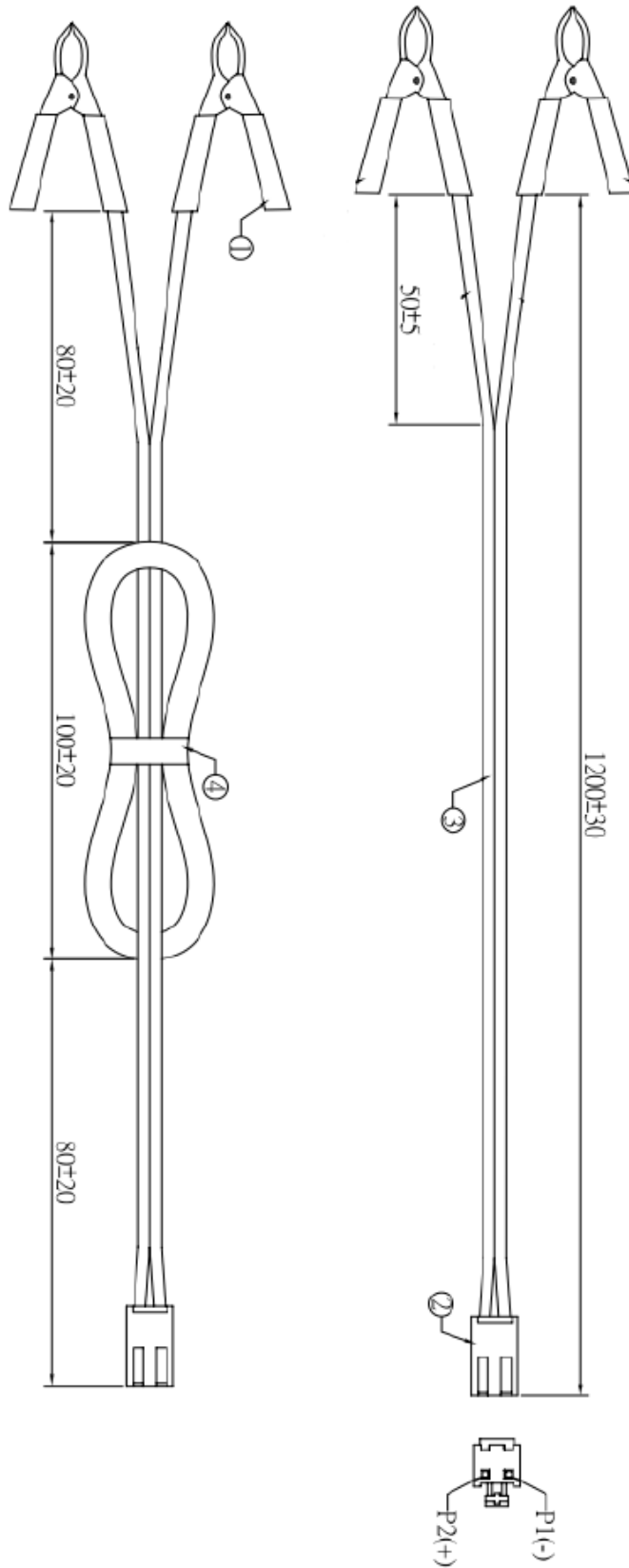
AC – DC

Case Drawing (continued)



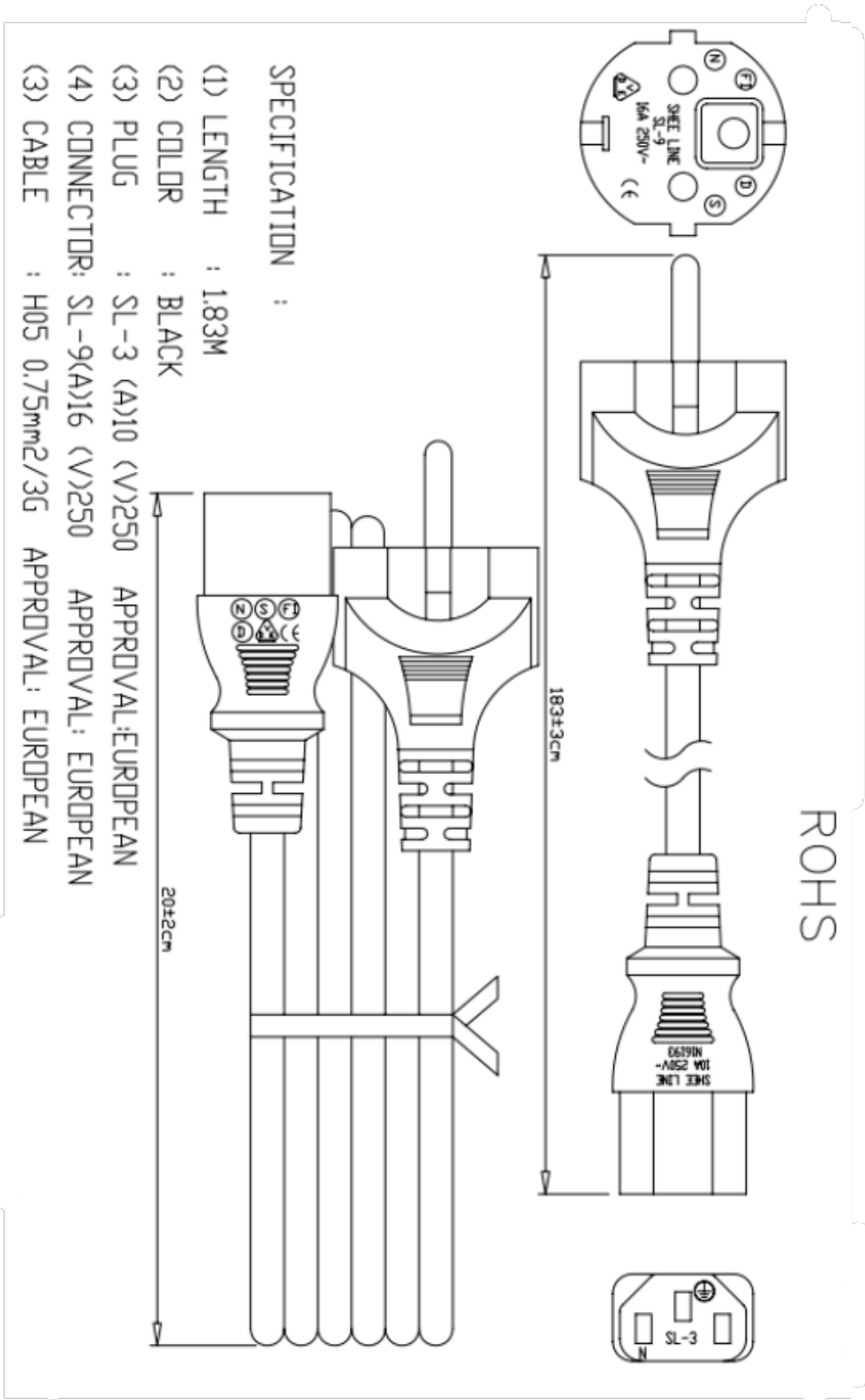
AC - DC

Cables



AC – DC

Cables (continued)



AC – DC

Cables (continued)

PLUG MARK



KM69214
FUSED PHINO
APPROVED BY BSI

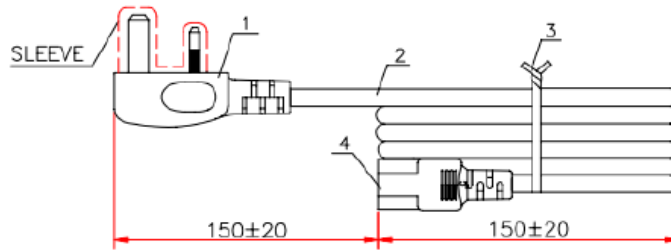
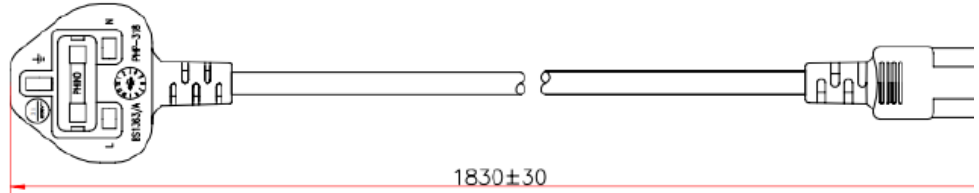


CONNECTOR MARK



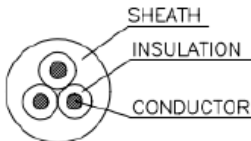
BS EN60320
Licence No. KM70768

N16493
10A 250V~



1. PVC MOLDED PLUG: PHP-318 (FUSE=3A; BLACK)
 2. PVC FLEXIBLE CORD: H05W-F 3X0.75MM² (BLACK)
 3. ELLIPTIC TIE (BLACK)
 4. PVC MOLDED CONNECTOR: PHS-301 (BLACK)
- NOTE: ALL MATERIALS ARE RoHS COMPLIANCE

CORD SECTION:



CORD MARKING:

PHINO Cabo H05W-F 300.75mm² <VDE> KEMA-KEUR IEMMEQU +++ <VDE>
CEBEC (S) (N) (D) (F) SABS SANS 60227-5 60227 IEC 53 300/500V CE Cn -LF-
ROLL NO.1,2,3...
CHINA FACTORY

AC - DC