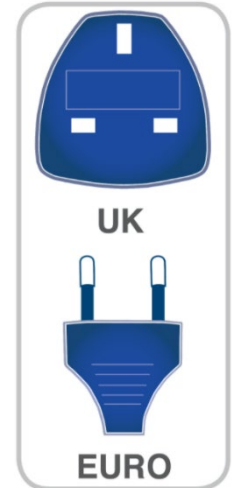


Features

- Universal input 100-240VAC
- Output Power: 24-168W
- Plastic or 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 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 | 31AC0124A | 31AC0224A |
|---------------------|--|--|
| Input Voltage | 100V ~ 240V universal | |
| Input Frequency | 47Hz ~ 63Hz | |
| Output Max Current | 1Amp | 2Amp |
| Output Equalizer | 29.2V +/- 0.2V (Can be order specific) | 29.2V +/- 0.2V (Can be order specific) |
| Output Float | | |
| Battery Application | Lead Acid Battery | |
| LED - Charging | Red | |
| LED - Charged | Green | |
| Dim. (LxWxH) mm | 119 x 60 x 31 | |
| Weight (Kgs) | 0.5 | |

Specifications subject to change without notice.

| Models | 31AC0324A | 31AC0424A | 31AC0524A | 31AC0624A | 31AC0724A |
|---------------------|--|-----------|-----------|-----------|-----------|
| Input Voltage | 110V / 220V Auto Switch | | | | |
| Input Frequency | 47Hz ~ 63Hz | | | | |
| Output Max Current | 3Amp | 4Amp | 5Amp | 6Amp | 7Amp |
| 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 | Yellow | | | | |
| LED - Charged | Green | | | | |
| Dim. (LxWxH) mm | 178 x 88 x 47 | | | | |
| Weight (Kgs) | 0.8 | | | | |

Specifications subject to change without notice.

Applications

- | | | | |
|-------------------------|-----------------------------|-----------------------------|--------------------------|
| ☉ 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 | |

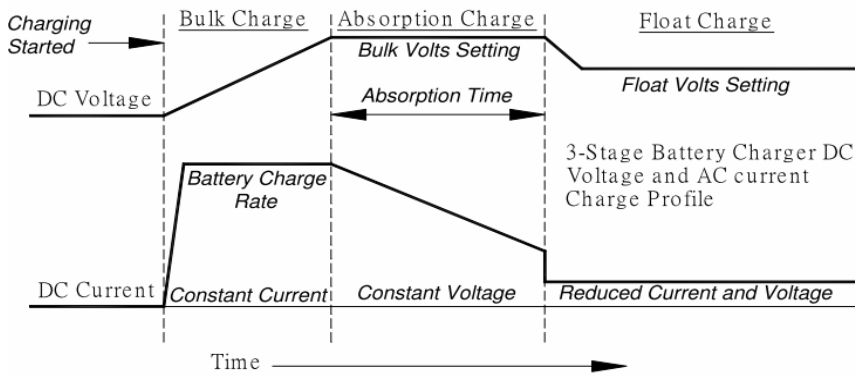
Ideal Power Limited

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. |

Fuse Sizes

| MODEL | IN | OUT |
|-----------|----------------------|--------------|
| AC 0212A | 3.15A/250V GLASS (F) | |
| AC 0312AM | 3.15A/250V GLASS (F) | |
| AC 0312A | 4A/250V GLASS (S) | 4A/250V (F) |
| AC 0412A | 4A/250V GLASS (S) | 5A/250V (F) |
| AC 0512A | 4A/250V GLASS (S) | 6A/250V (F) |
| AC 0612A | 4A/250V GLASS (S) | 8A/250V (F) |
| AC 0712A | 4A/250V GLASS (S) | 8A/250V (F) |
| AC 0812A | 6A/250V GLASS (S) | 10A/250V (F) |
| AC 1012A | 6A/250V GLASS (S) | 15A/250V (F) |
| AC 1212A | 6A/250V GLASS (S) | 15A/250V (F) |
| AC 0224A | 3.15A/250V GLASS (F) | |
| AC 0324A | 4A/250V GLASS (S) | 4A/250V (F) |
| AC 0424A | 4A/250V GLASS (S) | 5A/250V (F) |
| AC 0524A | 4A/250V GLASS (S) | 6A/250V (F) |
| AC 0624A | 6A/250V GLASS (S) | 8A/250V (F) |
| AC 0724A | 6A/250V GLASS (S) | 8A/250V (F) |
| AC 0336A | 6A/250V GLASS (S) | 4A/250V (F) |
| AC 0436A | 6A/250V GLASS (S) | 5A/250V (F) |
| AC 0348A | 6A/250V GLASS (S) | 4A/250V (F) |

AC – DC

Fuse Sizes (continued)

| MODEL | IN | OUT |
|-----------------|--------------------|--------------|
| AC 1212 | 15A/32V | |
| AC 1024 | 15A/32V | |
| AC 1424 | 30A/32V | |
| AC 2512 | 30A/32V | |
| AC 3512 | 40A/32V | |
| AC 2524 | 30A/32V | |
| AC 3024 | 40A/32V | |
| AC 5012 | 30A/32V | 30A/32V |
| AC 5024 Master | 30A/32V | |
| AC 5024 Slaver | 30A/32V | |
| AC 10012 Master | 30A/32V | 30A/32V |
| AC 10012 Slaver | 30A/32V | 30A/32V |
| AC 2024A | 30A/32V | |
| AC 2036A Master | 12A/250V GLASS (F) | 10A/250V (F) |
| AC 2036A Slaver | 12A/250V GLASS (F) | 10A/250V (F) |
| AC 2048A Master | 12A/250V GLASS (F) | 12A/250V (F) |
| AC 2048A Slaver | 12A/250V GLASS (F) | 12A/250V (F) |
| AC 0848 | 10A/250V GLASS (F) | 12A/250V (F) |
| AC 1048 | 12A/250V GLASS (F) | 12A/250V (F) |