AC – DC

Features

- Universal input 90-264V AC
- Output Power: 105W
- Aluminium Enclosure
- Approved to UKCA, CE
- LVD & EMC Class B Certified, RoHS & REACH compliant
- DC Cord 1.2M fitted with XLR (P1:+/P2:-)
- OVP, OCP, OTP, SCP

Ideal Power's 31ACWW12A-RS-XLR 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	31AC0712A
Output Max Current	7A
Output Power	105W
Input Voltage	90V ~ 264V universal
Input Frequency	47Hz ~ 63Hz
Output Voltage	13.7~14.6 V DC
Working Temperature	0 ~ 45 °C
Ripple & Noise	200mVp-p
Battery Application	Lead Acid Battery
LED – Power on	Red
LED – Charging	Orange
LED - Charged	Green
MTBF	30,000hrs
Mains Lead	1.8M EURO Plug + 1.8M UK Fuse Plug
DC Cable	SPT2, 18AWG 2C at DC Cord 1.2M fitted with XLR (P1:+/P2:-)
Dimensions	180 x 88 x 47 (LxWxH) mm
Weight	0.8 (Kgs)
Safety	CE, CUL
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	

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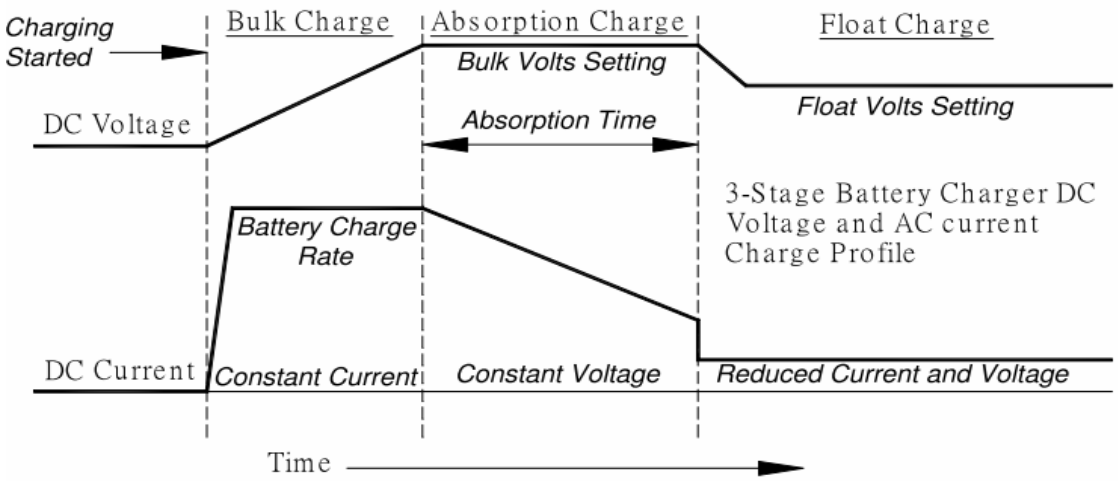
Three Steps of Charging & Charge Curve



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.

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Case Drawing