Features

- Universal input 100-240VAC
- **Short Circuit Output Protected**

<u>DEAL</u>POWER

- Approved to UKCA, CE
- LVD & EMC Class B Certified, RoHS & **REACH** compliant
- 36V Lead Acid 3 Stage Control (Fast/Normal/Float)
- OVP, OCP, OTP & Dry; Short Circuit
- LED Charge Indicators Included





₩ CE





Ideal Power's 31ACYY36A Range of 36V 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	31AC0136A	31AC0236A	31AC0336A	31AC0436A	
Input Voltage	90V / 264V Auto Switch - 100-240Vac +/- 10%				
Input Frequency	47Hz ~ 63Hz / 50-60Hz +/- 5%				
Input Current	1.8~3.6A - 115Vac / 230Vac				
Output Max Current	1A	2A	3A	4A	
Output Power	36W	72W	108W	144W	
Output Voltage	41.1~43.8V DC				
Output Equalizer	29.2V +/- 0.2V (Can be order specific)				
Output Float	27.4V +/- 0.2V (Can by order specific)				
Isolation	Input isolate Chassis : 500M OHM				
Battery Application	Lead Acid Battery				
LED - Power	Red				
LED - Charging	Orange				
LED – Fully Charged	Green				
DC Cable	1.2M Mount clips				
Dimensions	180 x 88 x 47 (LxWxH) mm				
Weight	0.8 (Kgs)				

Specifications subject to change without notice.

Applications			
© Communication devices	Power generators	© UPS	Power Inverters
O Vacuums Pumps	Sailing boats		Ambulance
© Fire trucks	© Emergency vehicles	© Electrical car & bicycles	Mobile command centres
Household items	CommunicationEquipment's	Automobiles Output Description Output Description Output Description Description Output Description Descrip	



Environmental Data					
	Minimum	Typical	Maximum	Units	Notes
Operating Temperature	0		45	ōС	
Storage Temperature	0		70	ōС	
Operating Humidity	20		90	ōC	
Storage Humidity	10		95	ōС	

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	Standard	Test Level	Criteria	Notes
Conducted	EN 55032	Pass	В	
Radiated	EN 55032	Pass	В	
Harmonic Current	EN 61000-3-2	Pass	Α	
Voltage Flicker	EN61000-3-2	Pass		

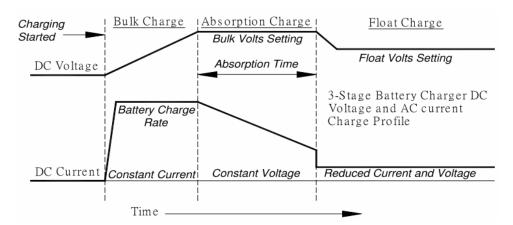
Chamalanal			
Standard	Test Level	Criteria	Notes
EN 55035	Pass	Α	
IEC 61000-4-2	Pass	В	Contact: +/- 4KV; Air: +/- 8KV
IEC 61000-4-3	Pass	Α	Frequency: 80-1000MHz; Field Strength: 3V/M ' 80% AM
IEC 61000-4-4	Pass	В	1.0KV on input AC power ports
IEC 61000-4-5	Pass	В	Line to Line: +/- 1KV (peak); Line to F.G: +/- 2KV (peak)
IEC 61000-4-6	Pass	Α	150KHz to 80MHz 3Vms
IEC 61000-4-8	Pass	Α	50hZ, 60Hz, 1A/m
IEC 61000-4-11	Pass	Complies	0%, 70%, 0% of UT
	IEC 61000-4-2 IEC 61000-4-3 IEC 61000-4-4 IEC 61000-4-5 IEC 61000-4-6 IEC 61000-4-8	IEC 61000-4-2 Pass IEC 61000-4-3 Pass IEC 61000-4-4 Pass IEC 61000-4-5 Pass IEC 61000-4-6 Pass IEC 61000-4-8 Pass	IEC 61000-4-2 Pass B IEC 61000-4-3 Pass A IEC 61000-4-4 Pass B IEC 61000-4-5 Pass B IEC 61000-4-6 Pass A IEC 61000-4-8 Pass A

Safety Approvals	
	Safety standard
CE	EMC Directive 2014/30/EU, LVD Directive 2014/35/EU, RoHS Directive RoHS (EU) 2015/863

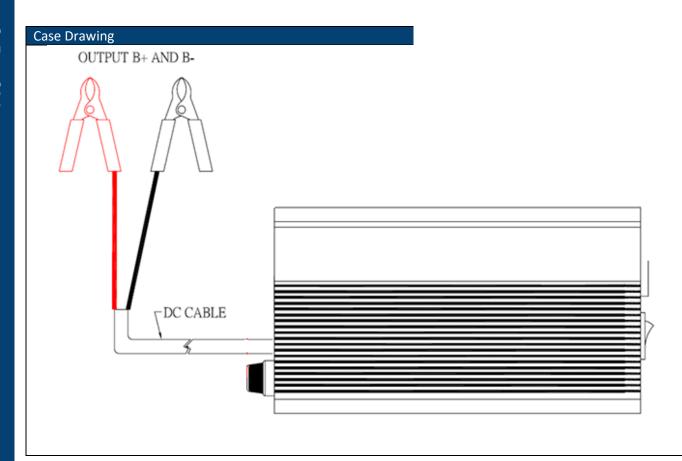


31ACYY36A 36V Lead Acid Battery charger Series

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.



Ideal Power Limited



