OPERATION MANUAL

Caution

- (1) Before using the battery charger please read all instructions and cautionary markings.
- (2) Use the battery charger in a well ventilated area for indoor use only.
- (3) To avoid the risk of injury, charge only lead-acid or gel cell type rechargeable batteries.
- (4) Beware of correct polarity.
- (5) Slight heat on the exterior while charging.
- (6) Avoid exposure to heat
- (7) Please remove the plug from AC power outlet after charging

Instruction of charging procedure

- (1) Connect correct polarized clips to battery terminals.
- (2) Connect to mains and switch on. Then charging starts Red (2A) / Orange (3A~12A) LED light.
- (3) At green light keep charging for a couple of hours for complete charging.
- (4) When charging finished (Green LED), disconnect from mains and remove clips from battery.
- (5) Charging can continue in "Float stage" without harming the battery.

• LED Indication

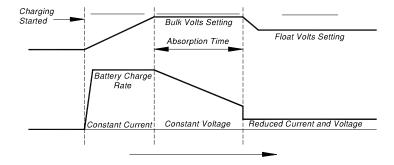
2A Charger RED : Charging GREEN : Full charged

3A ~ 12A Charger LED1 : RED → Power on LED2 : ORANGE → Charging GREEN → Full charged

• FAN Control (3A ~ 12A only)

1 Fan on fast speed (Bulk/ Absorption Charge) 2 Fan on slow speed (Float Charge)

Charging Curve



Case Drawing



2A Charger



3A ~ 12A Charger

• Specification_12V System

MODEL	AC 0212A	AC 0312A	AC 0412A	AC 0512A	AC 0612A	AC 0712A	AC 0812A	AC 1012A	AC 1212A
Input Voltage (Vac)	100~240	~240 115 1 230 D10% Auto Switch							
Input Frequency	50 1 60Hz								
Output Current	2A	3A	4A	5A	6A	7A	8A	10A	12A
Output Equalizer Voltage	14.6 V	dc D 0.2	2 V						
Output Float Voltage	13.7 Vdc D 0.2 V								
Battery Application	Lead Acid Battery								
Dimensions (L x W x H) mm	120 × 61.6 × 37.4			186	× 88 ×	47.5			
Weight	0.5 kgs				0.8 Kgs				

• Specification_24V System

MODEL	AC 0224A	AC 0324A	AC 0424A	AC 0524A	AC 0624A	AC 0724A
Input Voltage	100~240Vac	240Vac 100V 1 220Vac ± 10% Auto Switch				
Input Frequency	50 1 60Hz					
Output Current	2A	ЗА	4A	5A	6A	7A
Output Equalizer Voltage	29.2 Vdc D0.2 V					
Output Float Voltage	27.4 Vdc D0.2 V					
Battery Application	Lead Acid Battery					
Dimensions (L x W x H) mm	120 × 61.6 × 37.4 186 × 88 × 47.5					
Weight	0.5 kgs	0.8 Kgs				

Troubleshooting

Problem and Symptoms	Possible Reason	Solution		
If power LED indicator is off and no output voltage, when charger plug in socket.	No AC input Charger malfunction	Check AC power source. Notify service center		
If commercial power is normal. But charging indicate LED (Equalizer) is off when charging.	1. The polarity connection maybe reversed. 2. The output connection maybe short or open. 3. Output DC fuse loose (for 3A~12A) 4. Charger malfunction	1. Check output cable 2. Check output cable 3. Check output DC fuse (for 3A~12A) 4. Notify service center		
If commercial power is normal. But charging indicate LED (Equalizer) is light for a long time.	Battery malfunction Charger malfunction	The battery can not charge normally, please stop charging and have battery replaced. Notify service center		
If the charging Indicator from off turns to on (fully charged) immediately.	Battery fully charged. Battery malfunction.	It means the battery is not fully charged and it may be defective. Please have battery replaced.		