

AUTOMATIC BATTERY CHARGER



With Microprocessor and Equalizing



Application

Sweepers. Scrubbers. Forklifts. Pallet trucks. Warehouse equipment. Health cart. Rise/Lower cart. Electric tractor. Transport. Wheelchair. Unpiloted transport. Aerial transport. Pleasure boat. Golf cart. Electric powered vehicle. Building generator and all kinds of electric car...etc.



WHEN YOU ARE IN DREAM, FELLOW CHARGER ALWAYS WORKING

FELLOW Y.C. CO., LTD. started with the development of automatic battery chargers in 1987. We spent a lot to introduce the latest technique from Europe. Researched and developed by our technician. During long time of testing and experimenting, we received many technologic trials and we have been registered ISO 9001. The whole new type of automatic charger controlled by a micro-processor is developed successfully in 1994. The charger is the best partner for the industrial batteries. Good quality, low prices, professional sale-service and products supply any time. Win many clients' confirmations and many advance countries' industries' favor. Besides Taiwan, export area spread all over the world.

SPECIAL FUNCTION

- 1 By using the micro-processor, this charger stops automatically when the charging process is completed, and it can perform many others special functions.
- 2 Equalizing charge or normal charge can be selected manually.
- 3 Automatically start equalizing charge mode to lengthen the battery's life after charging completed.
- 4 The safety timer is for protecting the battery and detecting the input AC power, AC failure automatically.
- 5 Prevent to recharge the full battery.
- 6 The charge process can be designed to delay 3 hours after the battery is connected.
 1. Use the power of avoiding peak time.
 2. The battery can't be recharged after it discharges, because it is still hot.
- 7 Automatically decreasing charging current to avoid the battery losing battery water too much during the charging process.
- 8 There are 5 LEDs to indicate the acting conditions of this charger. (equalizing, normal charging, battery connected, final charge, charging completed, weekend charging, safety timer, power failed.)
- 9 The final charge time can be set 3, 3.5 or 4 hours.
- 10 The safety timer can prevent accidental battery damage and stop charging after 16 hours.
- 11 Choose various kinds of AC power and DC power (the voltage of battery) to make the battery and the charger combine more perfectly.

SAFETY DEVICES

- 1 When the charging time exceeds 16 hours of designing, the charger stops charging automatically and the red LED lights up on the front controlled panel.
- 2 When the charging current is too high, the circuit breaker or the fuse will open.
- 3 When the AC power doesn't input into the charger, the red LED flashes on the front controlled panel.
- 4 When the temperature is too high during the charging process, the temperature sensor switch opens and the red LED flashes on the front controlled panel.

PRENCIPLES OF OPERATION

The charger operates with (WACHARACTERISTICS) according to DIN 41774, that is the charger regulates the charging current according to the battery voltage, and the current tapers with increasing battery voltage. The charging process is very safety and smooth. After charging completed, the system stops charging automatically. The whole charging process is controlled by a micro-processor card in the charger.



CASE NO.2



CASE NO.4



CASE NO.5

CHARGING CURVE

The charging (WA-CHARACTERISTICS) is according to DIN 41774. The construction features of the transformer automatically determine the charge cycle.

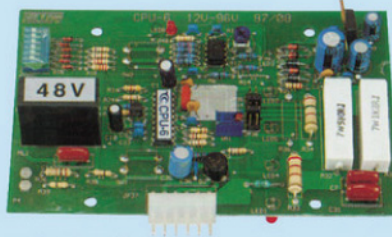
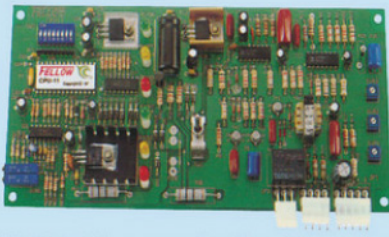
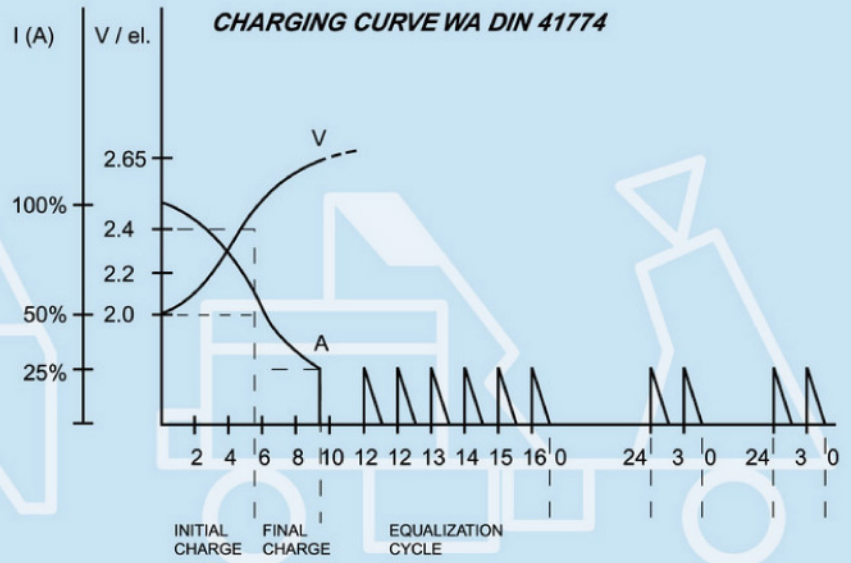
Calculation of charger initial current:

$C = \text{BATTERY CAPACITY (AH)}$

$I = \text{INITIAL CHARGE CURRENT (A)}$

$I = C(AH)/6$

$$\text{INITIAL CHARGE} = \frac{\text{BATTERY CAPACITY}}{6}$$



A PCB with supervise functions gives a safe charging



CASE NO.11



CASE NO.7



CASE NO.9



CASE NO.16

AUTOMATIC BATTERY CHARGER SPECIFICATION

CASE NO.	CASE DIMENSION			CARTON DIMENSION		
	HEIGHT (mm)	WIDTH (mm)	DEPTH (mm)	HEIGHT (mm)	WIDTH (mm)	DEPTH (mm)
2	285	195	170	350	240	250
4	335	236	208	400	340	290
5	394	300	230	430	350	300
7	500	400	700	530	430	830
9	500	400	1000	530	430	1100
11	250	350	310	300	350	430
16	460	430	610	490	460	710

In The List You Will Find Brief Information About The Most Wanted Models

INPUT VOLTAGE : SINGLE PHASE 110V ~ 220V 50HZ / 60HZ
THREE PHASE 220V ~ 440V 50HZ / 60HZ

V	AH	A	TYPE	CASE	V	AH	A	TYPE	CASE	
12V	30-40	6A	12/06	2	48V	60-70	10A	48/10	4	
	60-70	10A	12/10	2		120-140	20A	48/20	4	
	90-105	15A	12/15	2		180-210	30A	48/30	5	
	120-140	20A	12/20	2		240-280	40A	48/40	7 (16)	
	150-175	25A	12/25	4		290-340	50A	48/50	7 (16)	
	180-210	30A	12/30	4		360-420	60A	48/60	7 (16)	
	240-280	40A	12/40	4		480-560	80A	48/80	9 (16)	
	290-340	50A	12/50	5		600-700	100A	48/100	9 (16)	
24V	60-70	10A	24/10	2		720-800	120A	48/120	9 (16)	
	90-105	15A	24/15	2		840-960	140A	48/140	9 (16)	
	120-140	20A	24/20	2		960-1080	160A	48/160	9 (16)	
	150-175	25A	24/25	4		1080-1200	180A	48/180	9 (16)	
	180-210	30A	24/30	4		1200-1350	200A	48/200	9 (16)	
	240-280	40A	24/40	4		72V	290-340	50A	72/50	7 (16)
	290-340	50A	24/50	5			360-420	60A	72/60	9 (16)
	360-420	60A	24/60	5			480-560	80A	72/80	9 (16)
	480-560	80A	24/80	7 (16)	600-700		100A	72/100	9 (16)	
	600-700	100A	24/100	9 (16)	720-800		120A	72/120	9 (16)	
	720-800	120A	24/120	9 (16)	840-960		140A	72/140	9 (16)	
	840-960	140A	24/140	9 (16)	960-1080		160A	72/160	9 (16)	
960-1080	160A	24/160	9 (16)	1080-1200	180A		72/180	9 (16)		
1080-1200	180A	24/180	9 (16)	1200-1350	200A		72/200	9 (16)		
1200-1350	200A	24/200	9 (16)	80V	360-420		60A	80/60	9 (16)	
36V	60-70	10A	36/10		2		480-560	80A	80/80	9 (16)
	90-105	15A	36/15		2		600-700	100A	80/100	9 (16)
	120-140	20A	36/20		4	720-800	120A	80/120	9 (16)	
	150-175	25A	36/25		4	840-960	140A	80/140	9 (16)	
	180-210	30A	36/30		4	960-1080	160A	80/160	9 (16)	
	240-280	40A	36/40		5	1080-1200	180A	80/180	9 (16)	
	290-340	50A	36/50		7 (16)	1200-1350	200A	80/200	9 (16)	
	360-420	60A	36/60	7 (16)	96V	360-420	60A	96/60	9 (16)	
	480-560	80A	36/80	7 (16)		480-560	80A	96/80	9 (16)	
	600-700	100A	36/100	9 (16)		600-700	100A	96/100	9 (16)	
	720-800	120A	36/120	9 (16)		720-800	120A	96/120	9 (16)	
	840-960	140A	36/140	9 (16)		840-960	140A	96/140	9 (16)	
	960-1080	160A	36/160	9 (16)		960-1080	160A	96/160	9 (16)	
	1080-1200	180A	36/180	9 (16)		1080-1200	180A	96/180	9 (16)	
	1200-1350	200A	36/200	9 (16)		1200-1350	200A	96/200	9 (16)	

※ We reserve the right to modify technical characteristics of all technical data, pictures and information of a product, without previous notice.