

# FULLY AUTOMATIC BATTERY CHARGER GF - Series

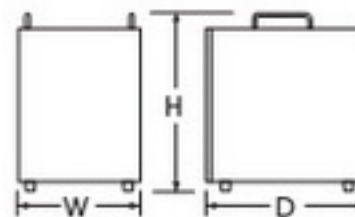
PETCH GF-Series are the fully automatic battery charger. The charger will start with large current when battery reach full charge state, current taper down and will automatically shut off without over charging.

## PETCH GF-Series are designed for :

- Unattended charging of lead acid batteries to maintain fully battery state.
- Suitable for golf carts ,scissors lift ,wheelchairs and any other cycle use 12, 24 ,36 or 48V application. Excellent for all marine application as well.

## Charger Features / Specification

- 12, 24, 36, and 48VDC models
- Transformer Type, Full wave silicon rectifier
- Advanced microprocessor control
  - Automatic shut off when full charged
  - Precise charging and termination algorithms
  - No AC draw when battery disconnect
  - Requires DC disconnect to restart
  - Maintenance mode keep batteries charged while in storage
- Charge protection
  - Voltage mismatch
  - Over voltage and undervoltage protection
  - Reverse polarity protection (sound alarm)
  - Delayed start to prevent arcing at DC connection
  - 15 hrs safety timer (Auto-shut off even batt not full)
- Charge Wet or Sealed Batteries
  - Factory set to charge either wet or sealed batteries
  - Field selectable with internal jumper
- Convection cooled with no moving parts
- Indicator
  - Ammeter
  - Green LED = Full (charge complete)
  - Blue LED = 80% charged
  - Red LED = Charge proceeding
- Cable lengths
  - Output DC. 1.90 meter
  - Input AC. 1.90 meter
- AC Input Ratings
  - Voltage (nom) 220 / 230VAC
  - Frequency (nom) 50 / 60Hz
  - Phase Single-phase
  - Current See model table
  - Protection -AC breaker (circuit protector)



SHAPE	CASE DIMENSIONS (mm)		
	Height	Width	Depth
A1	225	210	279
G1	230	222	298
A2	260	230	330
G3	297	248	356
A3	367	280	356

## ESTIMATE CHARGING PERIOD TIME

Model DC Amps start current	Battery Capacity (20 hr. rate)								
	50Ah	100Ah	120Ah	150Ah	200Ah	220Ah	250Ah	300Ah	370Ah
10 ADC	7.5 hrs	11.8hrs	14hrs	-	-	-	-	-	-
13 ADC	-	10 hrs	11.5hrs	13.7hrs	-	-	-	-	-
17 ADC	-	8.4 hrs	9.5hrs	11 hrs	14 hrs	15 hrs	-	-	-
21 ADC	-	-	8.3hrs	9.6 hrs	11.8 hrs	12.7 hrs	14 hrs	-	-
25 ADC	-	-	-	8.5 hrs	10.4 hrs	11.1 hrs	12.2hrs	14 hrs	-
30 ADC	-	-	-	-	9.2 hrs	9.8 hrs	10.7hrs	12.2hrs	14.4 hrs

Model	DC Volts	DC Amps	Battery Capacity (20 hr. rate)	AC Amps	Weight (kgs)	Shape (size)
GF1210	12	10	70 - 123	0.7	8.5	A1
GF1213	12	13	91 - 160	1	9	A1
GF1217	12	17	119 - 210	1.3	10	A1
GF1221	12	21	147 - 260	1.6	11	A1
GF1225	12	25	175 - 310	1.9	13	G1
GF1230	12	30	210 - 370	2.3	15.5	G1
GF2410	24	10	70 - 123	1.4	10.4	A1
GF2413	24	13	91 - 160	1.9	11.5	A1
GF2417	24	17	119 - 210	2.5	12	A1
GF2421	24	21	147 - 260	3	15	G1
GF2425	24	25	175 - 310	3.8	18.6	G1
GF2430	24	30	210 - 370	4.6	25	A2

Model	DC Volts	DC Amps	Battery Capacity (20 hr. rate)	AC Amps	Weight (kgs)	Shape (size)
GF3610	36	10	70 - 123	2.1	14	A1
GF3613	36	13	91 - 160	2.8	16	G1
GF3617	36	17	119 - 210	3.7	18	G1
GF3621	36	21	147 - 260	4.6	20	A2
GF3625	36	25	175 - 310	5.7	22	A2
GF3630	36	30	210 - 370	6.9	25	G3
GF4810	48	10	70 - 123	2.9	14	G1
GF4813	48	13	91 - 160	3.8	16	G1
GF4817	48	17	119 - 210	5	18	A2
GF4821	48	21	147 - 260	6.1	21	A2
GF4825	48	25	175 - 310	7.6	27	G3
GF4830	48	30	210 - 370	9.7	34	G3