

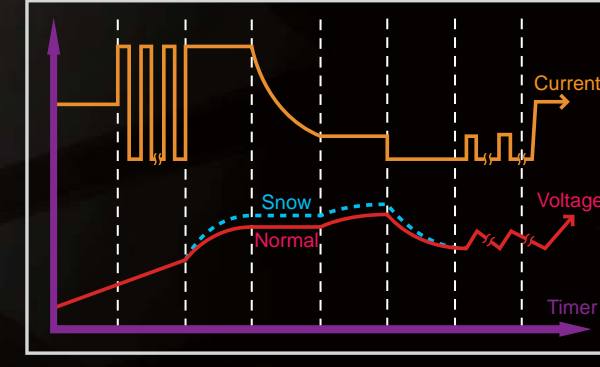
BATTERY CHARGER

GP-FA1210 / FA2407 / FA2407S Series 12V / 24V Lead-Acid Battery Charger

- AC Input range: 100 ~ 240V AC / 50-60Hz
- Power efficiency: Average > 82%
- Operating temperature range: -20 ~ 40°C at full load.
- Operating humidity: 10 ~ 95%
- AC Input current: 2.5A / 3A
- MTBF: 150k hrs min. MIL-HDBK-217F(25°C)
- Dimension: 190 x 116 x 61.8mm



GP-FA1210		
Charge mode (selectable)	Battery size	Charge time - 80%
2A for Motorcycle	10Ah - 20Ah	5-10 hr
5A for Car / Van	25Ah - 50Ah	5-10 hr
10A for Truck	50Ah - 100Ah	5-10 hr



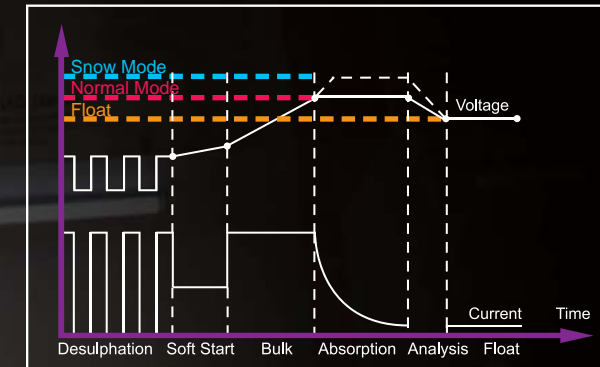
GP-FA2407 / GP-FA2407S		
Charge mode (selectable)	Battery size	Charge time - 80%
2A for Motorcycle	10Ah - 20Ah	5-10 hr
4A for Car / Van	20Ah - 40Ah	5-10 hr
7A for Truck	35Ah - 70Ah	5-10 hr

GP-CZ1206 / CZ2404 Series 12V / 24V Lead-Acid Battery Charger

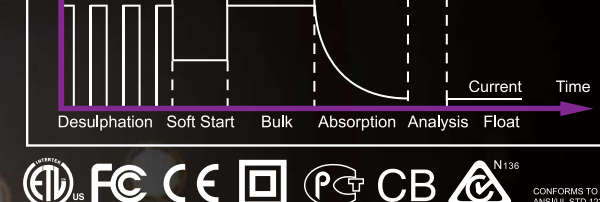
- Input voltage range: 90 ~ 130V AC, 3A / 180 ~ 264VAC, 1.5A
- Power efficiency: Average > 86%
- Operating temperature range: -20 ~ 50°C at full load.
- Operating humidity: 10 ~ 90%
- Withstand voltage: I/P - O/P: 3KV AC, I/P - FG: 1.5KV AC
- Leakage current: <1mA/240VAC
- MTBF: 100k hrs min. MIL-HDBK-217F(25°C)
- Dimension: 200 x 90 x 45 mm



CZ1206:12V / 6A			
Charge mode (selectable)	Battery size	Charge time	Maintenance size
1A for motorcycle (Slow)	3-20 Ah (7 Ah)	3-20 hrs (7 hrs)	Max 60 Ah
4A for car / van (Medium)	14-80 Ah (35 Ah)	3-20 hrs (14 hrs)	Max 150 Ah
6A for truck / RV (Fast)	20-150 Ah (55 Ah)	3-25 hrs (16 hrs)	Max 200 Ah



CZ2404:24V / 4A			
Charge mode (selectable)	Battery size	Charge time	Maintenance size
1A for bicycle (Slow)	3-14 Ah (7 Ah)	3-14 hrs (7 hrs)	Max 60 Ah
2A for motorcycle (Medium)	7-32 Ah (20 Ah)	3-16 hrs (14 hrs)	Max 100 Ah
4A for scooter (Fast)	20-85 Ah (50 Ah)	5-22 hrs (16 hrs)	Max 150 Ah



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LED DRIVER MODULE

GP-LS200P Series

Constant current / Constant voltage operation (CC + CV Mode)

Model No.	Output voltage	Rated current	Efficiency	Tolerance (A)	Dimension(mm)	Watts
LS200P-12	12V	13.4A	87%	±5%	244 x 68 x 39	160W
LS200P-24	24V	6.7A	90%	±5%	244 x 68 x 39	199W
LS200P-36	36V	4.4A	90%	±5%	244 x 68 x 39	201W
LS200P-48	48V	4.1A	90%	±5%	244 x 68 x 39	196W

(Input : 100-277V AC)



GP-LS150P Series

Constant current / Constant voltage operation (CC + CV Mode)

Model No.	Output voltage	Rated current	Efficiency	Tolerance (A)	Dimension(mm)	Watts
LS150P-12	12V	11.0A	88%	±5%	222 x 68 x 39	132W
LS150P-15	15V	10.0A	88%	±5%	222 x 68 x 39	150W
LS150P-24	24V	6.3A	90%	±5%	222 x 68 x 39	151W
LS150P-30	30V	5.0A	90%	±5%	222 x 68 x 39	150W
LS150P-36	36V	4.2A	90%	±5%	222 x 68 x 39	151W
LS150P-48	48V	3.2A	90%	±5%	222 x 68 x 39	153W
LS150P-54	54V	2.8A	90%	±5%	222 x 68 x 39	151W

(Input : 100-277V AC)



GP-LS100P Series

Constant current / Constant voltage operation (CC + CV Mode)

Model No.	Output voltage	Rated current	Efficiency	Tolerance (A)	Dimension(mm)	Watts
LS100P-12	12V	8.3A	86%	±5%	222 x 68 x 39	99W
LS100P-15	15V	6.6A	88%	±5%	222 x 68 x 39	99W
LS100P-24	24V	4.2A	90%	±5%	222 x 68 x 39	100W
LS100P-30	30V	3.3A	90%	±5%	222 x 68 x 39	99W
LS100P-36	36V	2.8A	90%	±5%	222 x 68 x 39	100W
LS100P-48	48V	2.1A	90%	±5%	222 x 68 x 39	100W
LS100P-57	57V	1.75A	90%	±5%	222 x 68 x 39	99W

(Input : 100-277V AC)



GP-TS10P Series

(120V / 240V Triac dimming)

Model No.	Output voltage	Rated current	Efficiency	Tolerance (A)	Dimension(mm)	Watts
TS10P-30L	15-30.5V	300mA	78%	±5%	108 x 30.5 x 26	10.5W
TS10P-21L	10.21V	500mA	76%	±5%	108 x 30.5 x 26	10.5W
TS10P-15L	7-15V	700mA	75%	±5%	108 x 30.5 x 26	10.5W
TS10P-30H	15-30.5V	300mA	78%	±5%	108 x 30.5 x 26	10.5W
TS10P-21H	10.21V	500mA	76%	±5%	108 x 30.5 x 26	10.5W
TS10P-15H	7-15V	700mA	75%	±5%	108 x 30.5 x 26	10.5W

(25W coming soon...)



LED DRIVER MODULE

GP-HS08N Series

Constant Current Operation without PFC function.

Model No.	Output voltage	Rated current	Efficiency	Tolerance (A)	Dimension(mm)	Watts
GP-HS08N-11C	3-11V	680 mA	70%	±5%	57 x 41 x 24	7.5W
GP-HS08N-14C	5-14V	500 mA	70%	±5%	57 x 41 x 24	7.5W
GP-HS08N-21C1	10-21V	350 mA	70%	±5%	57 x 41 x 24	7.5W



GP-LE036N Series

Constant Voltage Operation without PFC function.

Model No.	Output voltage	Rated current	Efficiency	Tolerance (V)	Dimension(mm)	Watts
GP-LE036N-12V	12V	3A	84%	±5%	110 x 35 x 25	36W
GP-LE036N-24V	24V	1.5A	84%	±5%	110 x 35 x 25	36W



GP-LE036N Series

Constant Current Operation without PFC function.

Model No.	Output voltage	Rated current	Efficiency	Tolerance (A)	Dimension(mm)	Watts
GP-LE036N-24C	16-24V	1400 mA	84%	±5%	110 x 35 x 25	36W
GP-LE036N-36C	24-36V	1050 mA	84%	±5%	110 x 35 x 25	36W
GP-LE036N-48C	30-48V	700 mA	84%	±5%	110 x 35 x 25	36W



GP-LE060N Series

Constant Voltage Operation without PFC function.

Model No.	Output voltage	Rated current	Efficiency	Tolerance (V)	Dimension(mm)	Watts
GP-LE060N-12V	12V	5A	87%	±5%	163 x 45 x 33	60W
GP-LE060N-24V	24V	2.5A	87%	±5%	163 x 45 x 33	60W



GP-LE060N Series

Constant Current Operation without PFC function.

Model No.	Output voltage	Rated current	Efficiency	Tolerance (A)	Dimension(mm)	Watts
GP-LE060N-36C	20-30V	910 mA	87%	±5%	163 x 45 x 33	60W
GP-LE060N-42C	20-36V	1700 mA	87%	±5%	163 x 45 x 33	61W
GP-LE060N-42C	24-42V	1400 mA	87%	±5%	163 x 45 x 33	59W
GP-LE060N-48C	30-48V	1050 mA	87%	±5%	163 x 45 x 33	50W



LED DRIVER MODULE

GP-LS100PH-- High Voltage Output Series

Constant Current Operation with PFC function.

Model No.	Output voltage	Rated current	Efficiency	Tolerance (A)	Dimension(mm)	Watts
GP-LS100PH-142C	100-142V	350 mA	89%	±5%	198 x 57 x 37	30W
GP-LS100PH-102C	50-102V	700 mA	89%	±5%	198 x 57 x 37	70W
GP-LS100PH-142C	100-142V	700 mA	90%	±5%	198 x 57 x 37	100W
GP-LS100PH-21C	50-71V	1400 mA	90%	±5%	198 x 57 x 37	100W

(Input : 100-277V AC)



GP-LS150PH-- High Voltage Output Series

Constant Current Operation with PFC function.

Model No.	Output voltage	Rated current	Efficiency	Tolerance (A)	Dimension(mm)	Watts
GP-LS150PH-425C	200-425V	350 mA	92%	±5%	226 x 68 x 39	150W
GP-LS150PH-210C	60-210V	700 mA	92%	±5%	226 x 68 x 39	147W
GP-LS150PH-142C	60-142V	1050 mA	92%	±5%	226 x 68 x 39	142W
GP-LS150PH-102C	60-102V	1400 mA	92%	±5%	226 x 68 x 39	150W

(Input : 100-277V AC)



GP-HS05N Series

(Constant Current mode)

Model No.	Output voltage	Rated current	Efficiency	Tolerance (A)	Dimension(mm)	Watts
HS05N-7C	7V	700mA	70%	±5%	57 x 40.8 x 24	5W
HS05N-12C	12V	350mA	70%	±5%	57 x 40.8 x 24	4W
HS05N-12C	12V	400mA	70%	±5%	57 x 40.8 x 24	5W
HS05N-24C	24V	200mA	70%	±5%	57 x 40.8 x 24	5W



GP-HS10P Series

(Constant Current mode + PFC)

Model No.	Output voltage	Rated current	Efficiency	Tolerance (A)	Dimension(mm)	Watts
HS10P-12C	12V	1000mA	81%	±5%	110 x 35 x 25	12W
HS10P-24C	24V	500mA	83%	±5%	110 x 35 x 25	12W
HS10P-36C	36V	350mA	83%	±5%	110 x 35 x 25	12W
HS10P-48C	48V	250mA	84%	±5%	110 x 35 x 25	12W



GP-HS15P Series

(Constant Current mode + PFC)

Model No.	Output voltage	Rated current	Efficiency	Tolerance (A)	Dimension(mm)	Watts
HS15P-12C	12V	1250mA	81%	±5%	110 x 35 x 25	15W
HS15P-22C	22V	700mA	83%	±5%	110 x 35 x 25	15W
HS15P-30C	30V	500mA	83%	±5%	110 x 35 x 25	15W
HS15P-42C	42V	350mA	84%	±5%	110 x 35 x 25	15W



LED DRIVER MODULE

GP-HS15P Series

(Constant Voltage mode + PFC)

Model No.	Output voltage	Rated current	Efficiency	Tolerance (A)	Dimension(mm)	Watts
HS15P-12V	12V	0-1250mA	81%	±5%	110 x 35 x 25	15W
HS15P-24V	24V	0-630mA	83%	±5%	110 x 35 x 25	15W



GP-HS25P Series

(Constant Current mode + PFC)

Model No.	Output voltage	Rated current	Efficiency	Tolerance (A)	Dimension(mm)	Watts
HS25P-12C	8-12V	2100mA	82%	±8%	174.5 x 30.5 x 25	25W
HS25P-12C	12-18V	1400mA	83%	±8%	174.5 x 30.5 x 25	25W
HS25P-24C	16-24V	1050mA	84%	±8%	174.5 x 30.5 x 25	25W
HS25P-36C	21-36V	700mA	85%	±7%	174.5 x 30.5 x 25	25W
HS25P-48C	35-48V	520mA	83%	±8%	174.5 x 30.5 x 25	24W
HS25P-52C	42-52V	480mA	84%	±8%	174.5 x 30.5 x 25	24W
HS25P-52C	42-52V	350mA	82%	±8%	174.5 x 30.5 x 25	18W

(Input : 100-277V AC)