

# GP Batteries

## Li-ion Battery USB Charger Model: L111

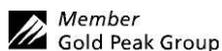
### Revision History

Revision	Date	Initiator	Reason for Change
0.0	12 June 2018	Alvin Chan	Initial release
0.1	11 July 2018	Alvin Chan	Fix typo

Prepared By	Approved By
Alvin Chan	Kevin Chan
Date: 12 June 2018	Date: 19 July 2018

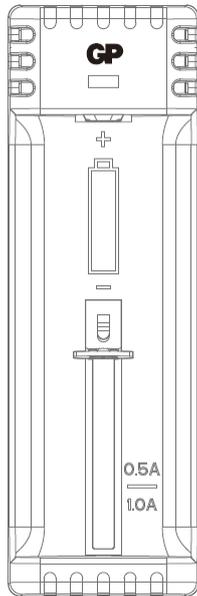
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Manufacturer reserves the right to alter or amend the design, model and specification without prior notice.

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Product Name	:	Li-ion Battery USB Charger
Model	:	L111
Input	:	DC5V 1A
Charging Channels	:	1 channel; 1 slot / 1 channel for 1pcs Li-ion battery
Output Voltage	:	4.2V
Charging Current	:	500mA / 1000mA
Charging Time	:	~4 hr for 1x 2600mAh Li-ion battery (charge @ 1000mA)
	:	~5 hr for 1x 3350mAh Li-ion battery (charge @ 1000mA)
Standby current at no input	:	< 1mA
Operation Temperature	:	0°C to 35°C
LED Indication	:	1 dual color (Red and Green) LED per Channel, Red and Green light flash once in sequence when USB input is inserted and self-test is ok. Charging in progress - Red LED ON Fully charged – Green LED ON
Safety protection	:	1) Over charge protection – cut-off voltage: 4.2±0.05V 2) Battery Reverse polarity – Red LED flash alert 3) Short circuit protection – Red LED flash alert 4) Bad battery identification – If the battery voltage is <1.5V, identify as bad battery. If the battery voltage is between 1.5V and 2.8V, charge at low current 100mA for 2 mins. If voltage increased to ≥2.8V, charge at normal current, otherwise throw Red LED flash alert.
Dimensions	:	100 (L) x 32.2 (W) x 28 (H) mm
Weight	:	30.6g (approx.)
Certification	:	CE, FCC, RoHS
Warranty Period	:	12 months from ex-factory date