

User Manual of
How to charge Hi-Power Polymer Li-Ion Battery
Module: 37V 10Ah by Precision AC- DC Power Supply
(0-105VDC, 0-10A Max)



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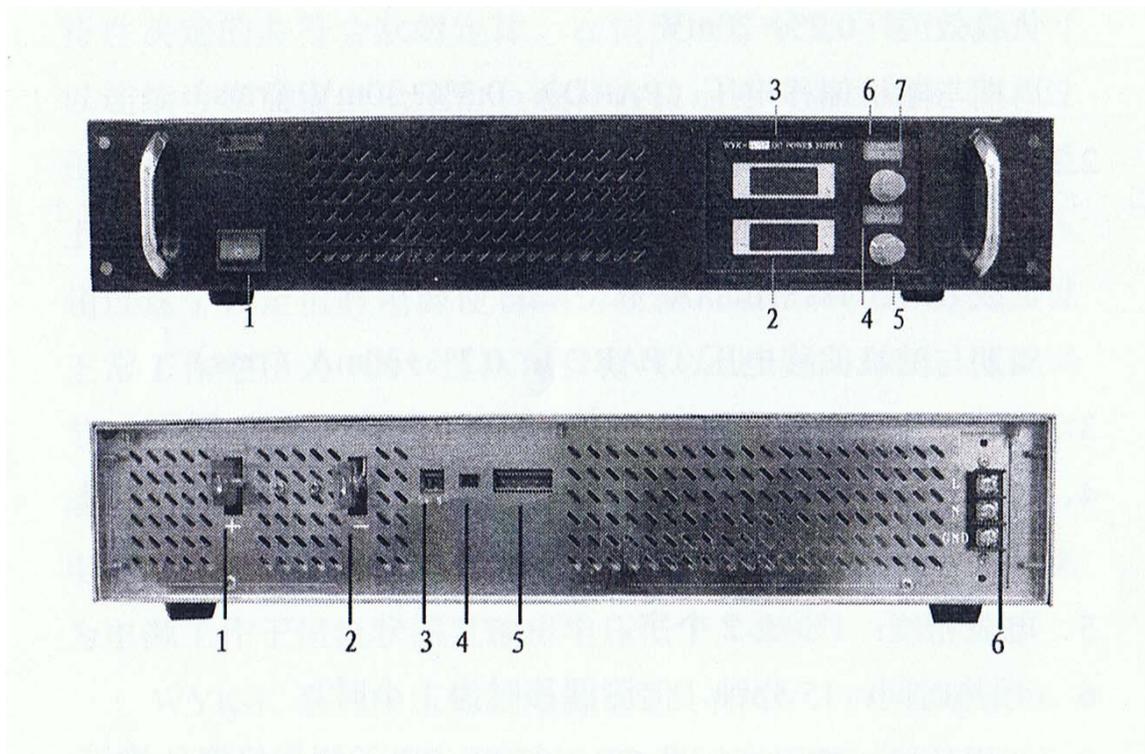
Below demonstrate How to charge Hi-Power Polymer Li-Ion Battery Module: 37V 10Ah by Precision AC- DC Power Supply (0-105VDC, 0-10A Max)

Basic Knowledge:

Constant Voltage out put mode (CV): The out put voltage can be adjusted to any V from 0 to whatever voltage under 105.

Constant Current out put mode (CC): The out put current can be adjusted to any amp from 0 to 10A.

This charger can either working at CV mode, or CC mode, which can be switch automatically. Such as, if you try to charge 37V Li-ion battery pack, you will set the out put voltage to 42V. Initially, this charger will work at CC mode, when the battery voltage reach 98.7% out of 42V, this charger will switch from CC mode to CV mode. After a while, when the current drop to like 0.05A-0.1A, that means the battery is fully charged. Under constant voltage working condition, the output voltage is continuously adjustable. At the mean time, the output current is depend on the internal resistance from loading and agree to Ohm's Law. Under constant current working condition, the output current is continuously adjustable. At the mean time, the output voltage is depend on the internal resistance from loading and agree to Ohm's Law.



Front panel (the first picture)

- 1, Power switch
- 2, Voltage meter

- 3, Current meter
- 4, CV mode indicator. When it is on means this device is working at constant voltage mode.
- 5, Voltage adjustor. To adjust the voltage from 0V to 105V.
- 6, CC mode indicator. When it is on means this device is working at constant current mode.
- 7, Current adjustor. To adjust the current from 0Ah to 10Ah.

Rear panel (the second picture)

- 1, “+” mark, positive out put.
- 2, “-” mark, negative out put.
- 3, External compensation port.
- 4, External compensation switch.
- 5, Functioning port.
- 6, Power cord.

Operation:

- 1, Turn on device, and let it warm up for 5 minutes.
- 2, Setup the output voltage, depending on what kind and what voltage of your battery pack.
- 3, Connect battery to the output terminal on the device, please make sure they are in right polarity.
- 4, Adjust the output current. We always suggest to use half C to charge the battery pack. If you have a 10Ah battery pack, never use over 5Ah to charge it, otherwise which will shorten the battery life and maybe cause damage.

Safety:

- 1, Do not open this device when it is working.
- 2, Organize all the cables, never step on it.
- 3, MUST make sure that the ground cable is connected.
- 4, Check all the cables in a period of time, make sure there.

How to connect to Hi-Power Polymer Li-Ion Battery Module: 37V 10Ah by Precision AC- DC Power Supply (0-105VDC, 0-10A Max)

