

DC-DC USB POWER ADAPTER

6A 4Ports

SKU: UPA64

UPA64 is a high-efficiency, DC/DC synchronous buck regulator that works with 7~26Vdc Input. The device is capable of supplying 0~6A of output current with an output voltage 5.3Vdc, compatible with any USB based device. It can support wide power sources, such as any AC-DC power adapters(voltage range 7~26V), 2~6Cells Li-poly battery, Auto cigar-lighter slot, etc.

Features

- Synchronous buck regulator
- 2 USB ports support IOS devices with 2.4A, 2 USB ports support Android & other devices
- Input voltage cut-off setting & alarm for LiPo
- 12V Auto battery voltage indicator & alarm
- DC 5.5*2.1 Input socket & Input pads
- Multiple protection functions,
 - Cycle-by-cycle current limit (8A)
 - Output over-voltage protection (5.7V)
 - Short-circuit protection
 - Thermal shutdown (120°C)

Specifications

- Input voltage range: 7~26V DC
- Output: USB 5.3V, 0~6A, Max.8A
- Efficiency: up to 95%
- Standby current: 10mA
- LiPo voltage cut-off setting: 3.4~3.7V/cell
- Size & weight: 59x59x17mm, 45g

How to Use

⚠ If the Input voltage is not in the range of 7~26V, no Output & all LEDs OFF with continued Beep. Input voltage >28V DC. the UPA64 will be hurt.

1. Connect the UPA64 to the proper power sources (AC-DC power adapters, 2~6Cells Li-poly battery, Auto cigar-lighter slot, etc.)
2. If the input voltage is in the proper range, UPA64 is ready for use & turn on 4 blue LED, Beep once.
3. Connect a target device to the UPA64.
 - 4 USB ports share 0~6A of output current,
 - USB Port A & B support IOS devices with Max. 2.4A of output current.
 - USB Port C & D support Android, WinPhone, IOS, and other USB devices.
4. No output as follows (Blue LEDs go out)
 - Over-load, Remove the devices & re-energize UPA64
 - Short-circuit protection, Check the output cables & re-energize it.
 - Thermal shutdown of DC/DC chip. Wait for the cooling & re-energize it.
 - Output over-voltage protection (5.7V) .
 - Input voltage is not in the proper range.

Modes & Settings

ⓘ Hold the button 2 seconds to enter the setting, and UPA64 remind "BeBeBe". Then press button to set the Modes. The Mode will be saved & exit if no action within 3 seconds. Beep once & the choosed mode will be valid.

Mode 1. AC-DC Power Source ■ ●●●●

- Mode LED: Green ON, Voltage LEDs: Red OFF
- This mode is used for the AC-DC power adapter, such as 12V, 19V, 24V AC-DC adapters.

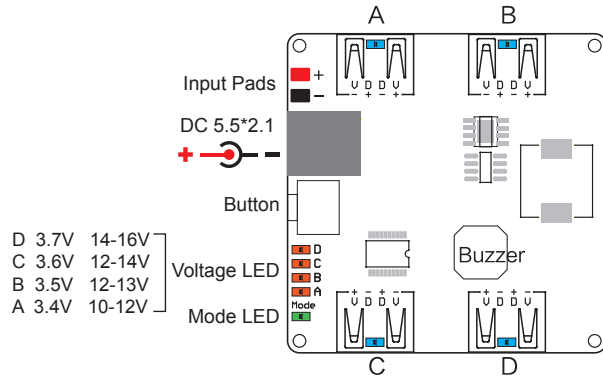
Mode 2. LiPo battery Power Source ■ ●●●●

- Mode LED: Green ON, Voltage LEDs: Red ON
- This Mode is special for the input source of LiPo battery. When the LiPo total voltage is below "threshold * cells". UPA64 will cut the output current & remind "Be..Be..Be..Be..Be", All Blue LEDs go out & Red LED blink. No current will be drawn from the LiPo battery again..
- Press button to set the cut-off value between 3.4V(A), 3.5V(B), 3.6V(C), 3.7V(D). The value will be saved real-time.
- If the LiPo voltage is in the range of following, The UPA64 will detect the cell numbers automatically when the LiPo battery is connected.
 - 7.4~8.6V: 2cells LiPo 11.1~12.9V: 3cells LiPo 14.8~17.2V: 4cells LiPo 18.5~21.5V: 5cells LiPo 22.2~25.8V: 6cells LiPo
- If the LiPo voltage is out of the above range. The UPA64 will alarm "Be..Be..Be..Be" & 4 Red LEDs ON. Pls check if the battery total voltage is below 3.7V*cells.
- Tips: Hold the button & energize the UPA64. The Beep will be OFF in this Mode. The cut-off function is still valid.
- Tips: The twin input pads can be used for connection of Cables & LiPo.

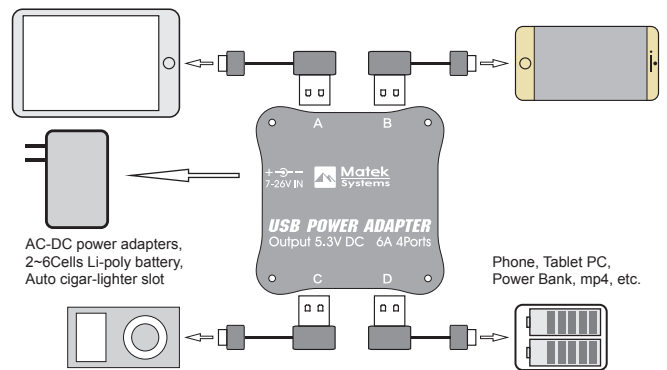
Mode 3. Auto cigar-lighter Power Source (12V Lead-Acid Battery) ■ ●●●●

- Mode LED: Green OFF, Voltage LEDs: Red ON
- It is special for the input source of Auto cigar-lighter slot. The UPA64 can show the voltage of the 12V Lead-Acid battery.
- Tips: Maybe there is considerable voltage drop in the input cables when heavy load on the USB. It will effect the voltage indicator.

Configuration



Connections



	Engine	Voltage	LED	Beep	USB Power	Suggestions
>14.8V	ON	High	D blink	Be..Be..Be..Cont.	OFF	Maybe the Lead-Acid battery will be hurt under this voltage.
13.5-14.8V	ON	Normal	C or D ON		ON	
13.0-13.5V	ON	Very Low	C ON		ON	
12.0-13.0V	OFF	Normal	B ON		ON	
11.0-12.0V	OFF	Low	A ON		ON	Difficult start. Please switch off the device to avoid overdischarge
<11.0V	OFF	Very Low	A blink	Be....Be....Be....Cont.	OFF	The engine can't be started, The battery should be renewed