

# Power Bank Demand Keep Growth

3



2

2017



1



# 2017 Power Bank Product Roadmap

## Durable Outdoor

### Features:

- Outdoor style
- IPxx Proof
- LED Flash Light



D8000L

D16750

## 3 Create Outdoor Product Line

- LED Lighting Power Bank
- Durable+ High Capacity IP67 Power Bank



## Premier

### Features:

- Aluminum Outlook
- Digital Display
- Specific Cell



X7000



A10050QC



A10050

2

## Value Add Product Line

- QC 3.0 Type C Power Bank
- Ultra slim Power Bank



## Value

### Features:

- Plastic Outlook
- Price Competitive



PV120



PV150



PT100



P12500D



P20000D

1

Drive QTY



# Less Time Charging More Time Doing- A10050QC



**One  
for All**

Qualcomm 3.0 certify Type C Power Bank  
30mins Charging from Zero to 80%

**Smart  
Capacity**

10050mAh Power Bank with Panasonic Cell

**Safe**

Over charging protection  
Over Temperature protection  
Over Voltage protection  
Over discharge protection  
Short-circuiting protection  
Current overflow protection  
Electrical leakage protection



Capacity: 10,050mAh  
Interface: USB x 1, Type C x 1, Micro USB x 1  
Input: 5V 2.5A  
Output: USB1 5-6V/3A; 9V/2A; 12V/1.5A (QC3.0)  
USB2 5V/2.5A (max)  
Charging cable included

# A10050QC Comparison List and Key Feature

Brand	ADATA	Anker	Anker	Tronsmart	Vērus Peripheral
Model	A10050Q	PowerCore 10000	PowerCore 20000	Preston PBT12	MP8000Q3
Photo					
Outlook	Alumium	Plastic	Plastic	Plastic	Plastic
Capacity	10050mAh	10000mAh	20000mAh	12000mAh	8000mAh
Battery	Li-ion 18650	Li-ion 18650	Li-ion 18650	Li-Polymer	Li-Polymer
Input	2.5A	2A	2A	3A (Type-C)	QC3.0 (Type-C)
Output	QC3.0+2.5A	QC3.0	QC3.0+1A	QC3.0+3A	QC3.0+1A
Output Port	Dual	Single	Dual	Dual	Dual
LED Flashlight	X	X	X	X	X
Color	2 Blue/ Titanium	1	1	1	1
Dimension	107x64.8x23.4mm	92x60x22mm	166x58x 22mm	158x 55x 18mm	TBD
Weight	TBD	181g	377g	236g	TBD

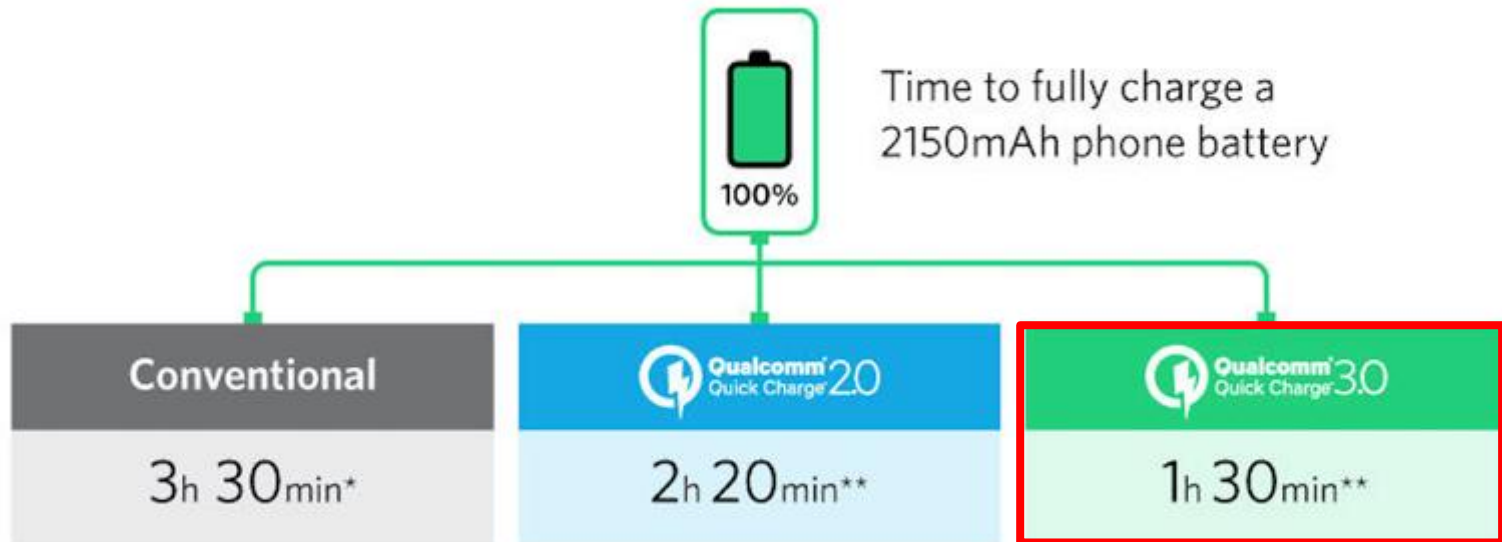


# How Much Time Will Save?

1



2





# A10050 QC Support Device

- A10050 QC not only support Android phone also support quick charge on Apple product (5V2A input)
- QC3.0 is Compatible with QC2.0.

## Lightning interface



### i-Phone 6/7

- i-Phone 6 & 7 input 5V2A
- A10050 QC can using USBA port support output 5V2.5A
- 4 time charging time.

## Type C interface



ASUS Zen3



Google Pixel



HTC M10



LG G5/V20

### Type C QC3.0 Smart Phone

- Support QC3.0 cell phone, 30mins can charge 0% to 80% capacity

## Micro USB interface



Samsung S7/Note 5



Sharp P1



Sony Xpera X



### Micro USB QC2.0 Smart Phone

- Compatible on QC2.0

# A10050QC UL Test Advantage

## More Safety testing required than standard CB certificated

### More testing more safety

Test Item	 UL2056	 CB IEC 60950-1
External Short Circuit	•	•
Abnormal Charge	•	•
Forced Discharge	•	•
Crush	•	•
<b>WIN!</b> Impact	•	•
Shock	•	•
Vibration	•	•
Heat	•	•
Temperature Cycling	•	•
<b>WIN!</b> Projectile	•	
Blade	•	
Flammability	•	
Drop	•	

Test Required	UL	CB
■ Housing Plastic Flame Test	V-0, 80°C	no required
■ Housing Metal Surface Temperature	55° C Max	no required
■ Electronic Parts burn, fire or explosion hazard	All electronic components	no required



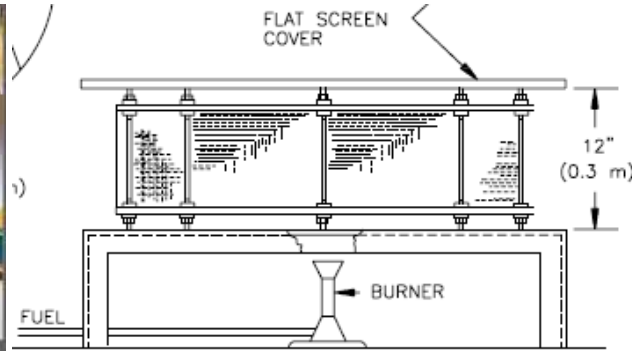
- Increased confidence in electrical and fire-hazard safety of your power bank.
- Gain access to the US and Canadian UL safety marks to cover the North American markets.
- Stay competitive and help ensure buyer's confidence with use of the European CE mark by utilizing both IEC 62133 and IEC 60950-1 Certifications.



# A10050QC UL New Testing Criteria Description

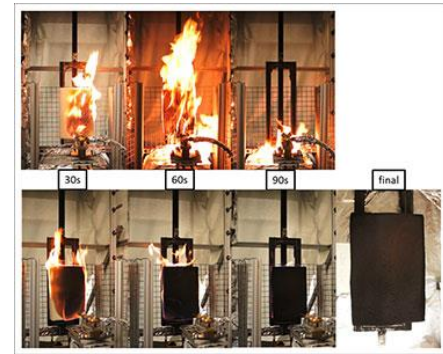
## UL 2056 Projectile Test (燒射)

<https://www.youtube.com/watch?v=PKefXyT1A4I>



## UL 2056 Flammability Test (可燃性)

(可燃性)

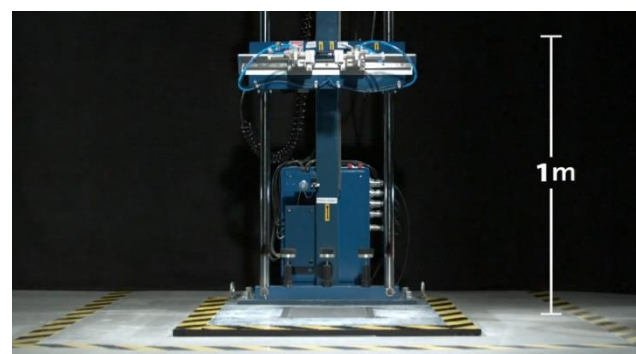


## UL 2056 Blade Test (穿刺)

## UL 2056 Impact Test (衝擊)



## UL 2056 Drop Test (落摔)





# A10050QC Rated Capacity & Charging Cycle



## Power Bank: A10050QC

### Battery Capacity:

Cell Voltage	3.6	V	X	Cell Capacity	10050	mAh	=	Cell Energy	36.18	Whr
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### Rated Capacity:

QC3.0 Output Voltage	5	V	X	Real Output (1A)	6580	mAh	=	Output Energy	32.9	Whr
QC3.0 Output Voltage	6	V	X	Real Output (3A)	5928	mAh	=	Output Energy	35.57	Whr
QC3.0 Output Voltage	9	V	X	Real Output (2A)	3166	mAh	=	Output Energy	28.49	Whr
QC3.0 Output Voltage	12	V	X	Real Output (1.5A)	2373	mAh	=	Output Energy	28.48	Whr
Output Voltage	5	V	X	Real Output (2.5A)	5922	mAh	=	Output Energy	29.61	Whr

Output 1, Type C 5V-12V

Output 2, USB 5V/2.5A



## Devices: Apple i-Phone 6 (Standard 5V)

Input Voltage	3.7	V	X	Cell Capacity (mAh)	1715	mAh	=	Input Energy	6.346	Whr		
Charging Cycle												
Power Bank Output Energy	32.9	Whr	÷	Devices Input Energy	6.3455	Whr	X	*Efficiency loss	0.90	=	Charging Cycle	4.67



## Devices: Google Pixel (QC3.0)

Input Voltage	3.7	V	X	Cell Capacity (mAh)	2770	mAh	=	Input Energy	10.25	Whr		
Charging Cycle												
Power Bank Output Energy	35.568	Whr	÷	Devices Input Energy	10.249	Whr	X	*Efficiency loss	0.90	=	Charging Cycle	3.12

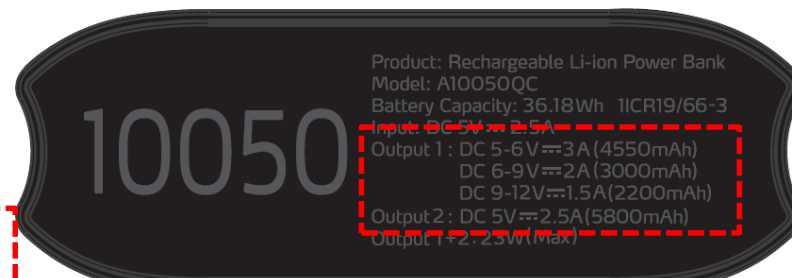
\*Efficiency loss by cable material/ length or devices power charging design/ connector material.

## Real test Result:

Item	Test Item	Efficiency
1	CAL3-D DSG USBA 5V/1A @25°C	93.8%(32.4Wh/6508 mAh)
2	CAL3-D DSG USBA 5V/2.5A @25°C	81.3%(28.1Wh/5922 mAh)
3	CAL3-D DSG USBC 5V/3A @25°C	82.2%(28.4Wh/6053 mAh)
4	CAL3-D DSG USBC 5V/3A @25°C	80.9%(27.7Wh/5928 mAh)
5	CAL3-D DSG USBC 9V/2A @25°C	81.7%(28.2Wh/3166 mAh)
6	CAL3-D DSG USBC 12V/1.5A @25°C	82.5%(28.5Wh/2373 mAh)



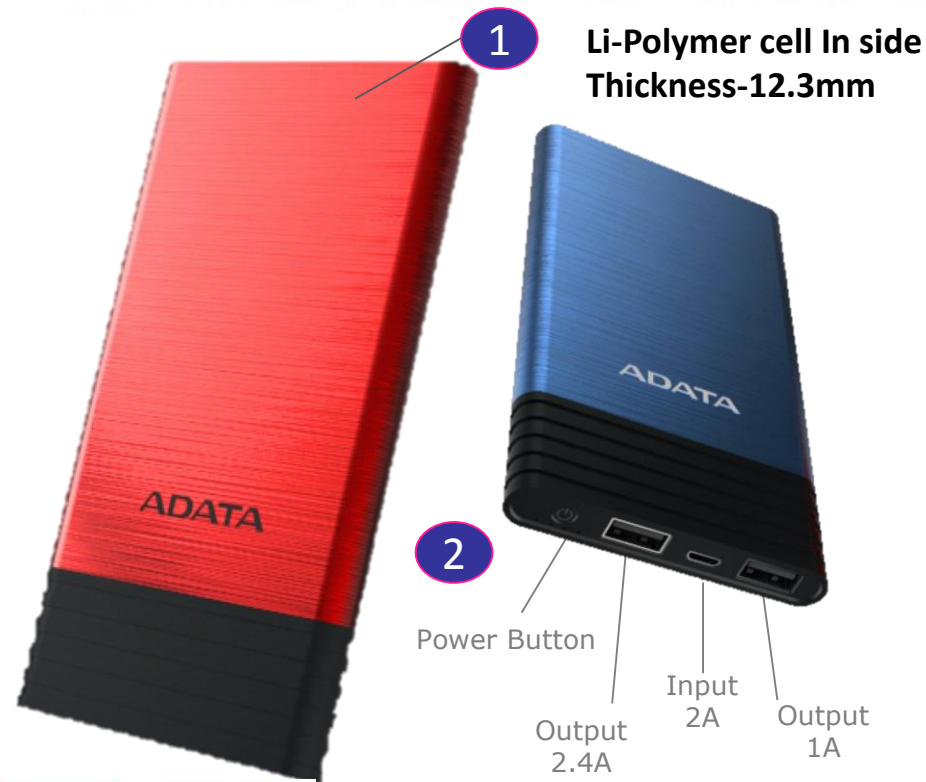
## UL Rated Capacity



\* Same Rated Capacity with UL & BSMI



# X7000 Power Bank-MP



## One for All

Li-Polymer Power Bank  
Support Dual USB Ports Charging Table & Smart Phone Simultaneously

## Smart Capacity

7000mAh Power bank  
Charging i-Phone 4 times

## Safe

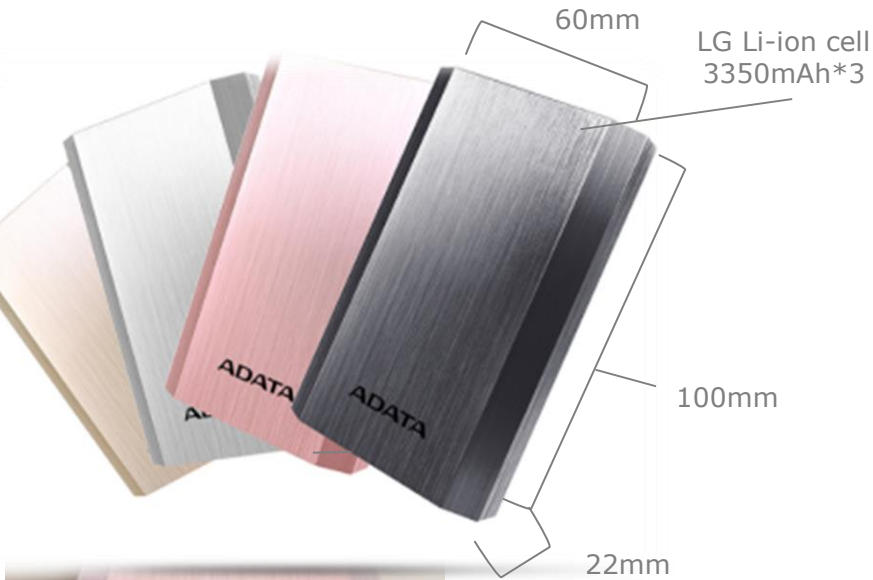
Over charging protection  
Over Temperature protection  
Over Voltage protection  
Over discharge protection  
Short-circuiting protection  
Current overflow protection  
Electrical leakage protection



Capacity: 7,000mAh      Interface: USB x 2, Micro USB x 1  
Input: 5V 2A    Output: 5V 1A, 5V 2.4A  
Charging cable included



## Ultra Compact name card size Power Bank



Power on/off indicator LED  
Input 2.0A  
Output 1A  
Output 2.1A



**One for All** Support dual USB ports charging table and smart phone simultaneously

**Smart Capacity** 10050mAh Power bank  
Charging iPhone 5 times

**Feature** Brushed Aluminum Alloy Case

## Over-Charge, Over-Discharge, Over-Current, Over-Temperature, and Short-Circuit Protection

**Color** Titanium, Silver, Golden, Rose Golden



Capacity:10050mAh  
Input: 5V 2.0A  
Charging cable included

Interface: USB x 2, Micro USB x 1  
Output: 5V 1.0A, 5V 2.1A  
Weight: 220g

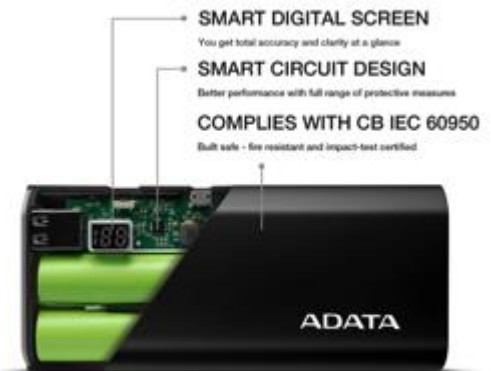
# A10050 vs. Competitor Power Bank

Brand Model	ADATA A10050	Mii Essential	Yoobao X3	Anker PowerCore	ASUS ZenPower
ID					
Outlook	Brushed Aluminum Excellent Cut Design	Aluminum	Aluminum	Aluminum	Aluminum
Capacity 	10050mAh	10000mAh	10200mAh	10050mAh	9600mAh
Battery	Li-ion 18650	Li-ion 18650	Li-ion 18650	Li-ion 18650	Li-ion 18650
Input 	2.0A	1.5A	1.5A	2.0A	2.0A
Output	1A + 2.1A	2.0A	1A + 2.0A	2.4A	2.4A
Output Port 	Dual 3.1A max.	Single	Dual 3.0A max.	Single	Single
LED Flashlight	X	X	V	X	X
Color 	4 TI / GD / SL / RG	3	1	1	5

# PowerBank P12500D-MP:2016, Nov.?



Capacity	12500mAh (Lithium-ion rechargeable battery)
Color	Black/White
Dimensions (L x W x H)	141 x 63.5 x 22.5mm 5.5 x 2.5 x 0.9inch
Weight	295g /10.4oz
Input	DC 5V, 2.0A (Micro USB)
Output 1&2	DC 5V, 2.1A max
Warranty	1 Year
Features	<ul style="list-style-type: none"><li>➤ Smart digital display for carefree use</li><li>➤ Dual USB Port with 2.1A output</li><li>➤ Big capacity at the ready</li><li>➤ Multiple Circuit Protection (OCP, OVP, OTP, SCP, ODP, OCP)</li></ul>





# PowerBank P20000D-MP: 2016, Oct

So much power,  
such precision!

P20000D Power Bank



**SMART CIRCUIT DESIGN**

Better performance with full range of protective measures

**SMART DIGITAL SCREEN**

You get total accuracy and clarity at a glance

**COMPLIES WITH CB IEC 60950**

Built safe - fire-resistant and impact-test certified

ADATA



Capacity	20000mAh (Lithium-ion rechargeable battery)
Color	Black
Dimensions (L x W x H)	163 x 80.6 x 23.3 mm / 6.4 x 3.1 x 0.9in
Weight	450g /15.8oz
Input	DC 5V / 2.0A (Micro USB)
Output 1&2	DC 5V, 2.1A max
Warranty	1 Year
Features	<ul style="list-style-type: none"> <li>➤ Smart digital display for carefree use</li> <li>➤ Doubles as a powerful LED flashlight</li> <li>➤ Dual USB Port with 2.1A output</li> <li>➤ Big capacity at the ready</li> <li>➤ Multiple Circuit Protection (OCP, OVP, OTP, SCP, ODP, OCP)</li> </ul>