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THE COMPANY

PortaPower was founded in 1995 with a mission of manufacturing and marketing high quality rechargeable batteries and related products to the customers worldwide. with its headquarter in Hong Kong, it has sales and administation, R&D offices, laboratories and factories in Hong Kong, China and Canada. The company has world-wide staff size of about 2000. Its factories in Shenzhen and Panyu is ISO 9001 certified, and have a total production



capacity of over 1,000,000 standard battery units per month. It offers approximately three thousand product models for customer's selection. PortaPower manufactures replacement batteries and related accessories and also develop and produce OEM items according to customer's requirements. Its products bear some of the world's most prestigious brands, including Duracell®, Energizer®, Rayovac® and others.

PortaPower has highly efficient production and assembly lines with the most modern equipment, like in-house machine tooling, injection welding lines and CNC mould production producing workshops, to ensure the timeliest response to rapidly changing market needs. And, PortaPower invests heavily on research and development. Its experienced R&D teams keep PortaPower in the forefront of rechargeable battery technology.

Among PortaPower's leading products are rechargeable battery packs for notebook computers, camcorders and digital cameras. The Li-ion cells used in these battery packs are procured from the most reputable manufacturers in Japan, korea and China.

We have insured all our battery and charger products with a 2 million US Dollars (US\$2,000,000) world-wide product liability insurance.



POWER TO THE PORTABLE

LAPTOP, NETBOOK, ULTRABOOK BATTERY PACKS





CORDLESS POWER TOOLS
BATTERY PACKS

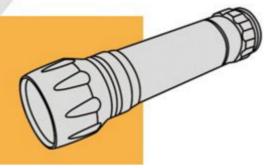
DIGITAL CAMERA & VIDEO CAMCORDER BATTERY PACKS





MOBILE, SMARTPHONE & PDA BATTERY PACKS

REPLACEMENT LED-FLASHLIGT BATTERY





EXTERNAL BATTERY PACKS

UNIVERSAL LI-ION CHARGERS



PORTAPOWER

HP, IBM, etc.

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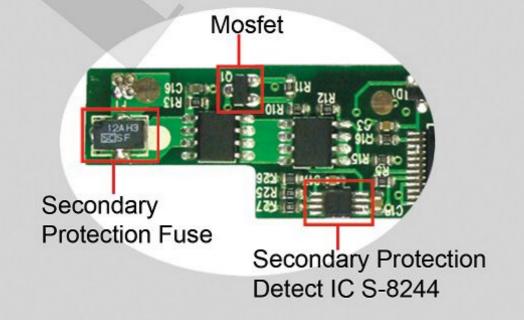
Matching original OEM laptop battery design, our laptop batteries also have Secondary Safety Protection Circuit.

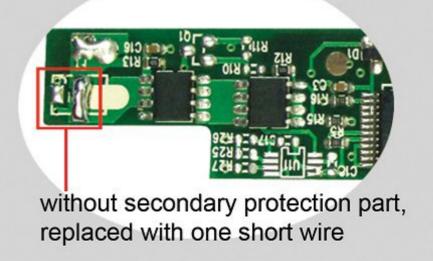
PRIMARY PROTECTION CIRCUIT

Senses the voltage level and disable the charge circuit after a predetermined voltage level is exceeded for a specified time period. In the event that the cell voltage exceeds its maximum level, the cell can enter a thermal runaway condition where the cell temperature can exceed 125°C. At this temperature the cell may explode and erupt into flames.

SECONDARY PROTECTION CIRCUIT

With Thermal and Current Fuse, to prevent over-voltage, short circuit and thermal runaway conditions in the event the Primary Protection Circuit does not operate properly.





Safety Protection

UNIVERSAL LAPTOP AC & DC ADAPTERS





Interchangeable Connector Tips

We provide 38 kinds of tip to choose.

Select a suitable connector tip and fits into the laptop DC-in jack tightly and steady. Then connect the DC output of the Power Adapter to the connector tip.



Universal Laptop AC Adapters

AC Power Adapters











58.5 x 34.5 x 134 mm



20V / 6A 120W 60 x 37 x 152 mm



44.4 x 28.2 x 96.7 mm

UNIVERSAL LAPTOP AC & DC ADAPTERS

DC Auto Adapters

Model: DC092B.005 Model: DC092B.006 Input: DC 12V - 15V Input: DC 12V - 15V Fuse: 15A

Fuse: 15A

Output: 19-20V / 4.7A max. USB Output: DC 5V / 2.1A Max. Max. Output Power: 90W Size: 106 x 51 x 18 mm Cord Length: 1200 mm









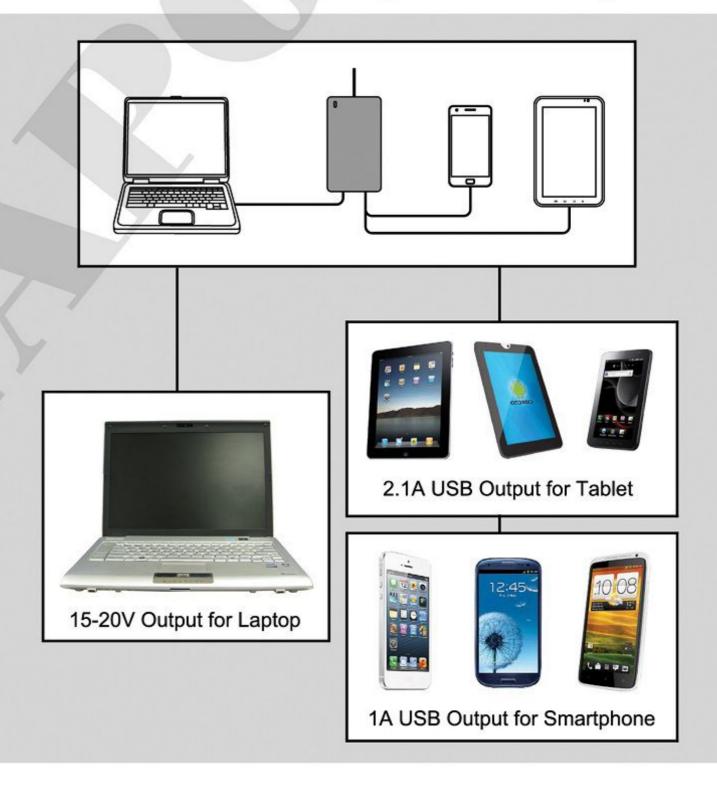


Universal Laptop DC Adapters

Special Charging Design

- Dual USB Output Ports
 - Output I: 5V / 1A Max. - Output II: 5V / 2.1A Max.
- Able to charge 3 devices simultaneously





DC Auto Adapters

Model: DC091B.005 Input: DC 12V Output: DC 15-17V Power: 90W

Size: 51 x 30 x 106 mm

Model: DC091B.006 Input: DC 12V Output: DC 18-20V Power: 90W

Size: 51 x 30 x 106 mm



Model: DC120B.002 Input: DC 12V Output: DC 15-17V Power: 120W

Size: 60.9 x 30.7 x 122 mm

Model: DC120B.003 Input: DC 12V Output: DC 18-20V Power: 120W

Size: 60.9 x 30.7 x 122 mm





We provide a wide range of brands for your choice: AEG, Black & Decker, Bosch, Craftsman, DeWalt, Firestorm, Hitachi, Makita, Milwaukee, National, Panasonic, Paslode, Ryobi, Skil, etc.

Li-ion Battery Type



CORDLESS POWER TOOLS & LITHIUM REPLACEMENT BATTERY PACKS

Ni-Cd / Ni-MH Battery Type













Universal Power Tools Battery Charger

ACMT Series Charger









Specifications

Model:	ACMT050	ACMG100		
Input:	100-240V / 1.2A Max.			
Output:	7.2-18.0V / 3A Max. 20-36V / 3A Max.			

Application for Ni-Cd/Ni-MH & Li-ion Power Tools BatteryUse different connection bases to fit different batteries



FUNCTION COMPARISON

PortaPower Design



Original Design



Designed with cell voltage monitoring mechanism.



No cell voltage monitoring system.



Built-in protection IC and NTC to stop battery from being over-charged.



Chance of being overcharged.



Explosion avoided.



Risk of explosion.

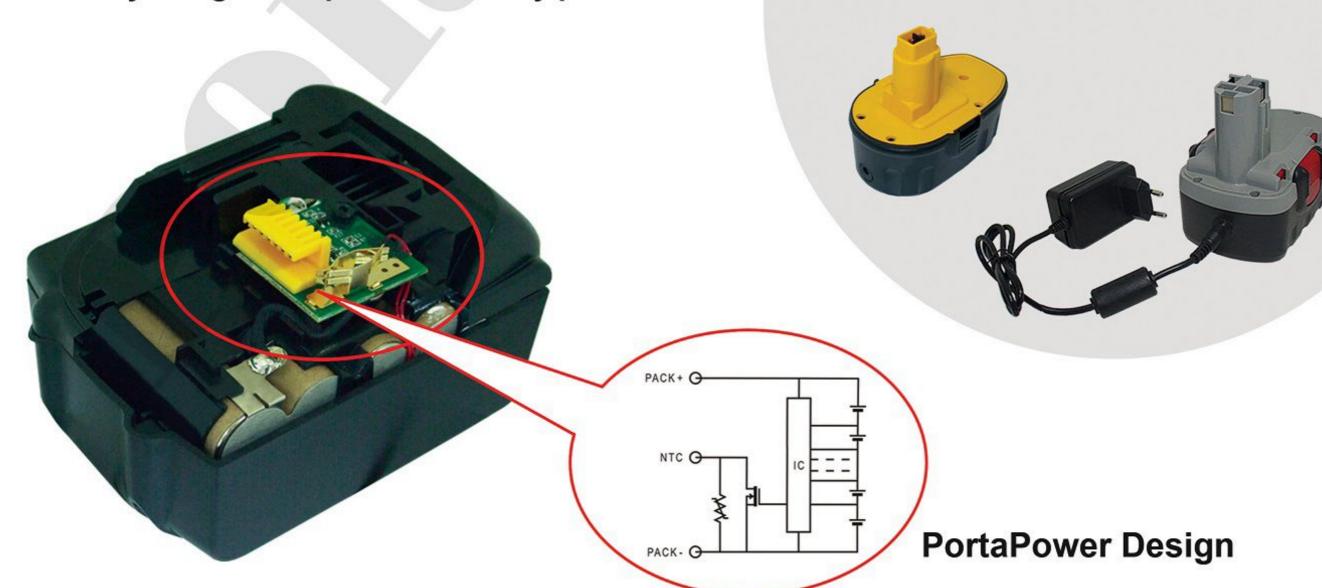
Greater Protection o More Safety o Better Design

Battery Pack Circuitry Improvement

In order to solve the shortcomings of original pack design. PortaPower has upgraded their circuitry design to improve the safety protection.

Special Charging Channel:

- Independent charging socket.
- Charging with specified AC power adapter.





We provide a wide range of brands to choose:

BenQ, Canon, Casio, Epson, Fujifilm, HP, JVC, Kodak, Leica, Nikon, Olympus, Panasonic, Pentax, Ricoh, Samsung, Sanyo, Sigma, Sony, Toshiba, etc.



PORTAPOWER



We provide a wide range of brands to choose: Canon, Hitachi, JVC, Panasonic, Samsung, Sanyo, Sharp, Sony, Toshiba, etc.



PROFESSIONAL CAMCORDER BATTERY PACKS



Flame Test For Our VO Grade Plastic Specimen

All our **Digital Camera** and **Camcorder** battery casings are made with flame-retardant **UL 94, V0** grade plastic materials

What is UL 94?

UL 94 is a plastic flammability standard released by Underwriters Laboratories of the USA. The standard classifies plastics according to how they burn in various orientations and thicknesses.

What are the requirements of V0 grade?

If the plastic specimen reach V0 grade, they must:

- Specimen must not burn with flaming combustion for more than 10 seconds after either test flame application.
- Total flaming combustion time must not exceed 50 seconds for each set of 5 specimens.
- Specimen must not burn with flaming or glowing combustion up to the specimen holding clamp.
- Specimen must not drip flaming particles that ignite the cotton.
- No specimen can have glowing combustion remain for longer than 30 seconds after removal of the test flame.



Specimen burns for 10 seconds



Specimen moves away from the flame, the bunnring plastic specimen flame extinguishes within 5 seconds

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RECHARGEABLE LITHIUM BATTERIES & CHARGERS FOR CAMERAS

Clamshell Packing:

Li-Fe Batteries





Rechargeable **CR123A**



Rechargeable CR-V3



Rechargeable 2CR5



Rechargeable CR-P2



Feature

- New Chemistry Li-Fe Lithium batteries
- Long cycle life: 2000 times
- Stable and Safe

Battery Chargers













For RCR2

For RCR123A

For RCR-V3

For R2CR5

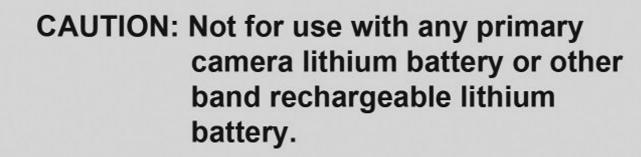
For RCR-P2

Interchangeable Charger Adapter Plate There are 5 adapter plates available.



Convenient Design

- Interchangeable AC plugs, designed for worldwide applications
- Direct plug-in to the wall outlet



Clamshell Packing







We provide a wide range of brands to choose:

Acer, Asus, BlackBerry, Dell, HP, HTC, LG, Motorola, Nokia, Panasonic, Samsung, Sony Ericsson, Toshiba, etc.

PDA & Smartphone



Mobile Phone



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All our smartphone battery models will be available in high capacity close to the original batteries

PP Code	Original Code	Fit For	Original Cap	Our Cap
BL0950	B600BE	Galaxy S4	1500mAh	1500mAh
BL0816	EB-L1M7FLU	Galaxy Ace 2	1500mAh	1500mAh
BL0853	EB564465LU	Galaxy Beam	1500mAh	2000mAh
BL0971	EB595675LE	Galaxy Note 2	3100mAh	3100mAh
BL1303	BP-3L	Asha 303	1300mAh	1300mAh
BL2625	BA600	Xperia U	1300mAh	1300mAh

EXTERNAL BATTERY MUSIC SERIES

Portable Power Bank designed for use with iPod, iPhone, Smartphone, and all digital devices which run on DC 5V. It is also a portable speaker, MP3 player and LED flashlight. Its compact size and light weight can provide maximum convenience to carry during traveling, cycling, camping and other indoor / outdoor activities.



Model:	EL560	
Input Port:	Micro-USB	
Rated Input:	DC 5V/1A Max.	
Output Port:	USB	
Rated output:	DC 5V/1A Max.	
Size:	124 x 47 x 39 mm	
Capacity:	5200 mAh	
Cell: Samsung ICR18650-26		



Model E1560 Mars 5200 mAh

Functions

An External DC 5V/1A Power Bank

- Built-in 2pcs of rechargeable Li-ion 18650 cell
- High 5200mAh capacity for long run time
- Built-in safety protection circuit for maximum protection

A Portable Hi-Fi Speaker

Using standard 3.5mm audio line-in jack for maximum convenience

An MP3 Player

 Support up to 32GB TF card (Micro-SD) as music source

A LED Flashlight

Built-in super-white LED light for general use



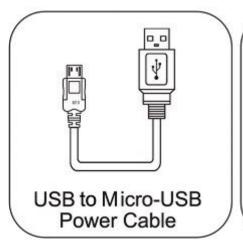


EXTERNAL BATTERY MINI SERIES

Specifications

Model	EL571	
Input Port	Micro-USB	
Rated Input	DC 5V/1A Max.	
Output Port	USB	
Rated Output	DC 5V/1.5A Max.	
Size	Ø27 x 97 mm	
Capacity	3400 mAh	
Call	Panasonic	
Cell	NCR18650B	

Package Include







Colors : Green, Blue, Yellow, Red, Pink, White, Black

Model E1531 Mars 8400 mAb





Specifications

Model	EL581	
Input Port	Micro-USB	
Rated Input	DC 5V/1A Max.	
Output Port	USB	
Rated Output	DC 5V/1.5A Max.	
Size	Ø27 x 97 mm	
Capacity	3400 mAh	
Cell	Panasonic	
Cell	NCR18650B	



Package Include







EXTERNAL BATTERY MINI SERIES

Features

- 5V USB Power Output
- 5V Micro-USB Charging Port
 - Compatible with current popular smartphone chargers which use Micro-USB plug.
- A LED Flashlight
 - Hold the function switch for 3 seconds to turn on and off the LED flashlight.



Optional Accessories:





USB Adapter











Cigarette Lighter Plug 1 Port and Dual USB Car Charger

Convenient Design

- Pocket-size, available in 4 colors.
- Battery charging through computer USB socket.
- USB output socket lets you to use the device's own USB cable.
- Uses the supplied USB cable with our wide range connector plugs compatible with over 90% of mobile devices.













E1509 Max 2000 mAh



Specifications

Model:	EL509	
Input:	DC 5V/1A Max.	
Output:	DC 5V/1A Max.	
Size:	81 x 48 x 12 mm	
Capacity:	2000 mAh	
Cell:	Panasonic CGA-E/T03SEA	

EXTERNAL BATTERY FASHION SERIES

Specifications

Model:	EL531	EL541	
Input Port:	Micro-USB		
Rated Input:	DC 5V/1.5A Max.	DC 5V/2A Max.	
Output Port:	Dual USB		
Rated Output:	DC 5V/2.1A Max.	DC5V/3.1A Max.	
Size:	71 x 63 x 23 mm	90 x 71 x 29 mm	
Capacity	6800mAh	13400mAh	
Cell	Panasonic N	ICR18650B	



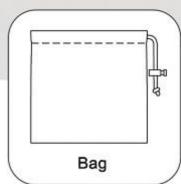
Model Election Mark 6300 mAh

Model EL541 Max 18400 mAh



Package Incudes





Features

- Dual USB Output Ports
- Can use proprietary USB cable
- Optional multi-connector tips for choose
- 5-level LED Indicator
- Can charge 2 devices simultaneously
- Micro-USB Charging Port
- Can charge via computer USB terminal
- Also can charge via your original devices charger
- A bright white LED flashlight
- Power-saving function













EXTERNAL BATTERY LEISURE SERIES

Specifications

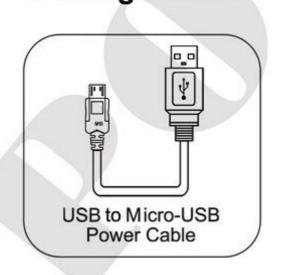
Model:	EL586	
Input: (I)	Micro-USB Port (DC 5V/1A)	
(II)	USB Cable (DC 5V1A)	
Output: (I)	Micro-USB Cable (DC 5V/1A)	
(II)	USB Port (DC 5V/2.1A)	
Size:	120 x 80 x 18 mm	
Capacity:	10000 mAh	
Cell:	YLE Polymer	

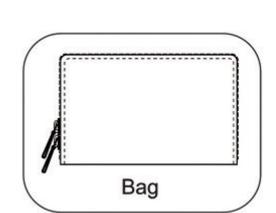


4 Colors : Pink, Blue, Green & Deep Gray



Package Incude





USB Car Charger

Features

Dual Power Input

- Micro-USB Port: 5V / 1A;

- USB Cable : 5V / 1A

Dual Power Output

- Micro-USB Cable: 5V / 1A;

- USB Port : 5V / 2.1A

A LED Flashlight

 Hold the function switch for 3 seconds to turn on and off the LED flashlight.

High Capacity

Small Size



EXTERNAL BATTERY TRAVEL SERIES

Specifications

Model:		EL1697	
Input:		DC 12V - 24V	
	1.	16V≕4A /	
		19V=3.5A /	
Output:		24V=2.5A	
Output.	2.	5V≕1A	
	3.	5V≕2.1A	
	4.	10.8V ≕ 5A	
Size:		177 x 110 x 23 mm	
Capacity:		27000 mAh	
Cell:		Panasonic	
		NCR18650A x 9	







Model EL1697 Max 27000 mAh

Features

- Slow charge via computer USB socket.
- Fast charge with supplied charger.
- 4 output work simultaneously.
- Output I: 3 Selectable voltage output 16V/4A,

12V - 24V Output IV 9V - 12V

19V/3.5A & 24V/2.5A - Output II: 5V/1A, - Output III: 5V/2.1A, - Output IV: 10.8V/5A, · High Capacity: 27000mAh Max.

Package Includes



Cigarette Plug



Smartphone







Output 9-12V Output 5V Output 16V, 19V & 24V

DC Adapter (19V / 90W)

EXTERNAL BATTERY BUSINESS SERIES



Specifications

Model:	EL1692	
Rated Input:	DC16-25V	
Selectable	DC16V or 19V	
Output:	7.8A Max.	
USB Output:	DC5V/0.5A	
Size:	233 x 169 x 14 mm	
Capacity:	7800 mAh	
Cell:	Panasonic CGA-E/T03SEA x 4	

Model E4692 Mars 7800 mAh

Features

- Ultra slim (14mm thick) and light weight (0.75kg) design.
- 16V and 19V selectable voltage output.
- 87Wh high power.
- 4-stage power indicator
- Suitable for laptop computer use.

Accessories:



Connectors for Laptop



AC Adapter













EXTERNAL BATTERY PROFESSIONAL SERIES

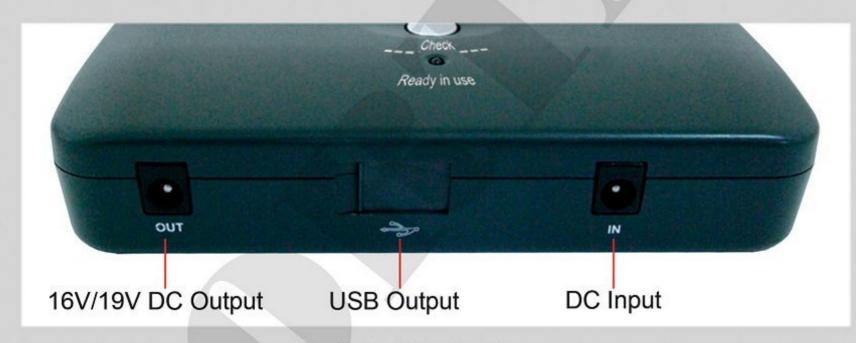


Specifications

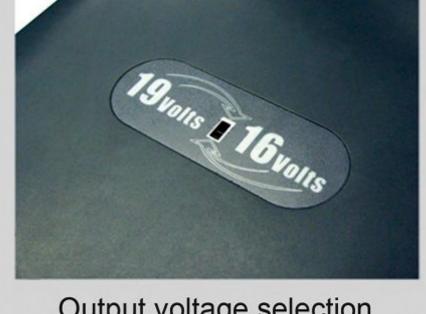
Model:	EL1901	
Rated Input:	DC 12-19V	
Selectable	DC 16V or 19V	
Output:	4.75A Max.	
USB Output:	DC 5V/0.5A	
Size:	270 x 145 x 33 mm	
Capacity:	40500 mAh	
Cell:	Panasonic CGR18650CG x 18	

Model E49901 Mars 40500 mAh

Features



Multiple DC Ports



Output voltage selection



4-stage LED indicators



With power indicator to show the battery capacity



Can charge 2 devices simultaneously

REPLACEMENT LED-FLASHLIGHT BATTERY

High Capacity real Needs





FL1843 battery functions as 3 x AAA cells in cartridge

Feature

High Safety Design

 Batteries are built with reliable safety Protection Circuit Modules (PCM) to protect the FL1843 battery: from Over Charge / Over Discharge / Overload / Under Voltage

Light Weight

26% lighter than 3 x AAA batteries in cartridge

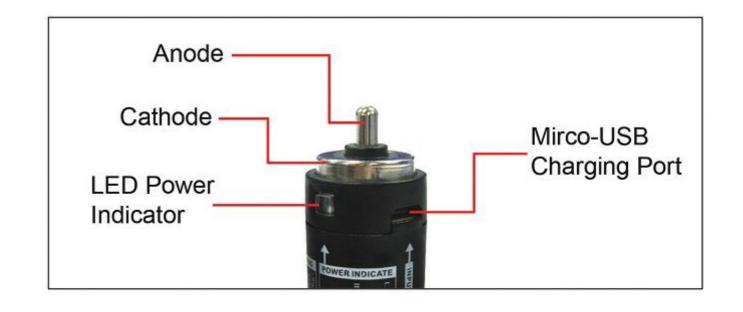
LED Charge Indicator

Steady blue: 100% - 70%Flashes blue: 69% - 30%Slow flashes red: 29% - 10%

- Quick flashes red: <10%

Specifications

Model No.	FL1843B.142	FL1843B.184
Voltage	3.6V	
Capacity	750mAh/2.70Wh	1400mAh/5.04Wh
Discharge Current(1C)	0.75A	1.4A
Max.Discharge Current	2A (+	/- 0.5A)
Cycle Life	500 - 700	
Size	Ø23.0 x 64.0 mm	





FL1843B.142 Weight: 30.6g



3 x AAA & Cartridge Weight: 41.6g



BATTERY DESIGN



Design 1

- + nub cylinder end - flat opposite end Pack with PVC jacket
- Design 4

+ small flat cylinder end - flat opposite end Pack with ABS plastic Design 2 outer casing One end center



Anode (+) & outer ring Cathode (-); Other end flat Cathode (-) Pack with PVC jacket



Design 5

One end center Anode (+) & outer ring Cathode (-); the end flat Cathode (-) Pack with ABS plastic outer casing



Design 6

Both sides are Anode (+) in center & Cathode (-) on outer ring Pack with ABS plastic outer casing

Special Design

Both sides have Anode (+) in center & Cathode (-) on outer circle





Coated with ABS plastic outer casing or PVC jacket



Design 3

+ nub cylinder end - flat opposite end Pack with ABS plastic outer casing

Design 7

- + nub cylinder end
- flat opposite end
- *Replace 3 x AAA flashlight battery cartridge Pack with ABS plastic outer casing

pedfications of Available Models

Design	Model	Standard Voltage	Capacity	Discharge Voltage	Discharge End Voltage	Discharge Current (1C)	Max. Discharge Current	Dimension
1	FL143U.142	3.7V	750mAh	4.2V~3.0V	3.0V	0.75A	2.5A (+/-0.5A)	Ø14.6 x 50 mm
	FL145U.154	3.7V	800mAh	4.2V~3.0V	3.0V	0.8A	2.5A (+/-0.5A)	Ø14.6 x 57 mm
	FL166U.266	3.7V	3500mAh	4.2V~3.0V	3.0V	3.5A	7.0A (+/-0.5A)	Ø26.6 x 72 mm
	FL175U.764	3.7V	1600mAh	4.2V~3.0V	3.0V	1.6A	2.5A (+/-0.5A)	Ø17.2 x 57 mm
	FL185U.853	3.7V	1500mAh	4.2V~3.0V	3.0V	1.5A	7.0A (+/-0.5A)	Ø18.6 x 57 mm
	FL186U.083	3.7V	2200mAh	4.2V~3.0V	3.0V	2.2A	7.0A (+/-0.5A)	Ø18.6 x 72 mm
2	FL1853U.853	3.7V	1500mAh	4.2V~3.0V	3.0V	1.5A	4.0A (+/-0.5A)	Ø18.6 x 57 mm
	FL1863U.083	3.7V	2200mAh	4.2V~3.0V	3.0V	2.2A	4.0A (+/-0.5A)	Ø18.6 x 72 mm
3	FL1667P.266	3.7V	3500mAh	4.2V~3.0V	3.0V	3.5A	4.0A (+/-0.5A)	Ø28.2 x 72 mm
	FL1857P.853	3.7V	1500mAh	4.2V~3.0V	3.0V	1.5A	4.0A (+/-0.5A)	Ø20.2 x 57 mm
	FL1867P.083	3.7V	2200mAh	4.2V~3.0V	3.0V	2.2A	4.0A (+/-0.5A)	Ø20.2 x 72 mm
4	FL1856P.853	3.7V	1500mAh	4.2V~3.0V	3.0V	1.5A	4.0A (+/-0.5A)	Ø20.2 x 57 mm
5	FL1668P.266	3.7V	3500mAh	4.2V~3.0V	3.0V	3.5A	4.0A (+/-0.5A)	Ø28.2 x 72 mm
	FL1858P.853	3.7V	1500mAh	4.2V~3.0V	3.0V	1.5A	4.0A (+/-0.5A)	Ø20.2 x 57 mm
6	FL1868P.083	3.7V	2200mAh	4.2V~3.0V	3.0V	2.2A	4.0A (+/-0.5A)	Ø20.2 x 72 mm
	FL1859P.853	3.7V	1500mAh	4.2V~3.0V	3.0V	1.5A	4.0A (+/-0.5A)	Ø20.2 x 57 mm
	FL1869P.083	3.7V	2200mAh	4.2V~3.0V	3.0V	2.2A	4.0A (+/-0.5A)	Ø20.2 x 72 mm
7	FL1455P.154	3.7V	1500mAh	4.2V~3.0V	3.0V	1.5A	4.0A (+/-0.5A)	Ø22.4 x 57 mm
	FL1855P.853	3.7V	1500mAh	4.2V~3.0V	3.0V	1.5A	4.0A (+/-0.5A)	Ø22.4 x 57 mm

FLASHLIGHT BATTERIES CHARGER







AC Power Adapter





Charger comes with two power adapters, allowing you to charge your battery at home or in car.









AV-GP Series

Input : DC 100-240V~50/60Hz Output : DC 4.2V / 1A





AC-MP Series
Input: 100-240V~50-60Hz
Output: DC 4.2V / 500 mA





UNIVERSAL CHARGERS FOR DC & DV BATTERY



AVEQ Series

For 3.6V ≈ 4.2V



AVEQ Spec.

Input: DC 5V/1A Output: DC 4.2V / 1A Dimension: 79 x 47 x 22 mm

AVET Series

Interchangeable Charger Plates

Suitable for different battery models, simply change the charger plate.

Power by USB Port

Connect the charger USB plug to

Computer, USB Travel Charger,

USB Car Charger and External

any USB power socket like PC

Package Includes

Battery.







For 7.2V ~ 8.4V

AVET Spec.

Input: DC 5V / 1A

Output: DC 8.4V / 1A Dimension: 86 x 49 x 24 mm

Convenient Design

- Slim and Portable size
- With Micro-USB Port, connect any USB output socket to get power



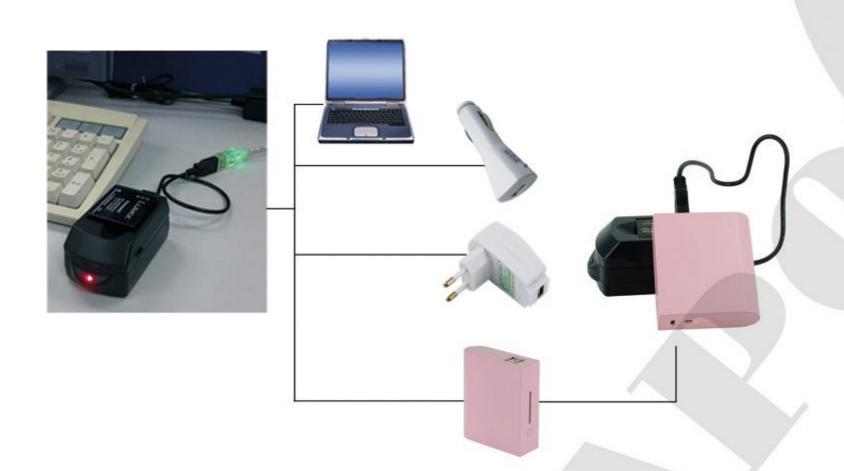




UNIVERSAL CHARGERS FOR DC & DV BATTERY

Power by USB Port

Connect the charger USB plug to any USB power socket like PC Computer, USB Travel Charger, USB Car Charger and External Battery.
The AVEP charger will get power from the USB socket and start charging your Digital Camera battery.



AVEP Series



AVEP Spec.

Input: DC 5V Output: DC 4.2V

Operation Current: 500mA Dimension: 86 x 49 x 24 mm

AVCP Series









Interchangeable Charger Adapter Plate

Suitable for different battery models, simply change the charger plate.

AVCP Spec.

AC Adapter Input: 100-240V; 50Hz/60Hz AC Adapter Output: DC 12V / 0.5A Charger DC Output: DC 4.2V or 8.4V

Dimension: 86 x 49 x 24 mm







Cigarette Plug

Conveniently

Charger come with two power adapters, allow you to charge your battery at home or in car.

UNIVERSAL CHARGERS FOR DC & DV BATTERY

Convenient Design

- Direct plug into the wall outlet
- Compact design
- Interchangeable AC plugs, design for worldwide applications



ACMPB Series













British Type

Australian Type



ACMPB Spec.

Input: 100-240V; 50Hz/60Hz

Output:

DC 4.2V or 8.4V Dimension: 80 x 48 x 28 mm



Interchangeable Charger Adapter Plates

Plate Suitable for different battery models, simply change the charger plate.

AVMP Series









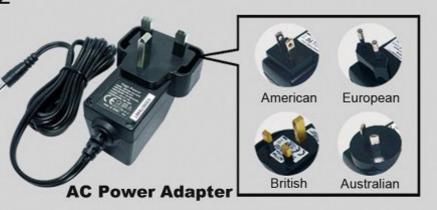
Interchangeable Charger Adapter Plate

Suitable for different battery models, simply change the charger plate.

AVMP Spec.

AC Adapter Input: 100-240V; 50Hz/60Hz AC Adapter Output: DC 12V / 1A Charger DC Output: DC 4.2V or 8.4V

Dimension: 106 x 68 x 35 mm







DC Car Cord

Conveniently

Charger come with two power adapters, allow you to charge your battery at home or in car.

PROFESSIONAL CAMCORDER CHARGERS

Fit for V-Mount Style Batteries



4-Channel V-Mount Battery Charger



2-Channel V-Mount Battery Charger

Fit for NP Style Batteries



4-Channel Sequential Battery Charger

Fit for V-Mount Style Batteries

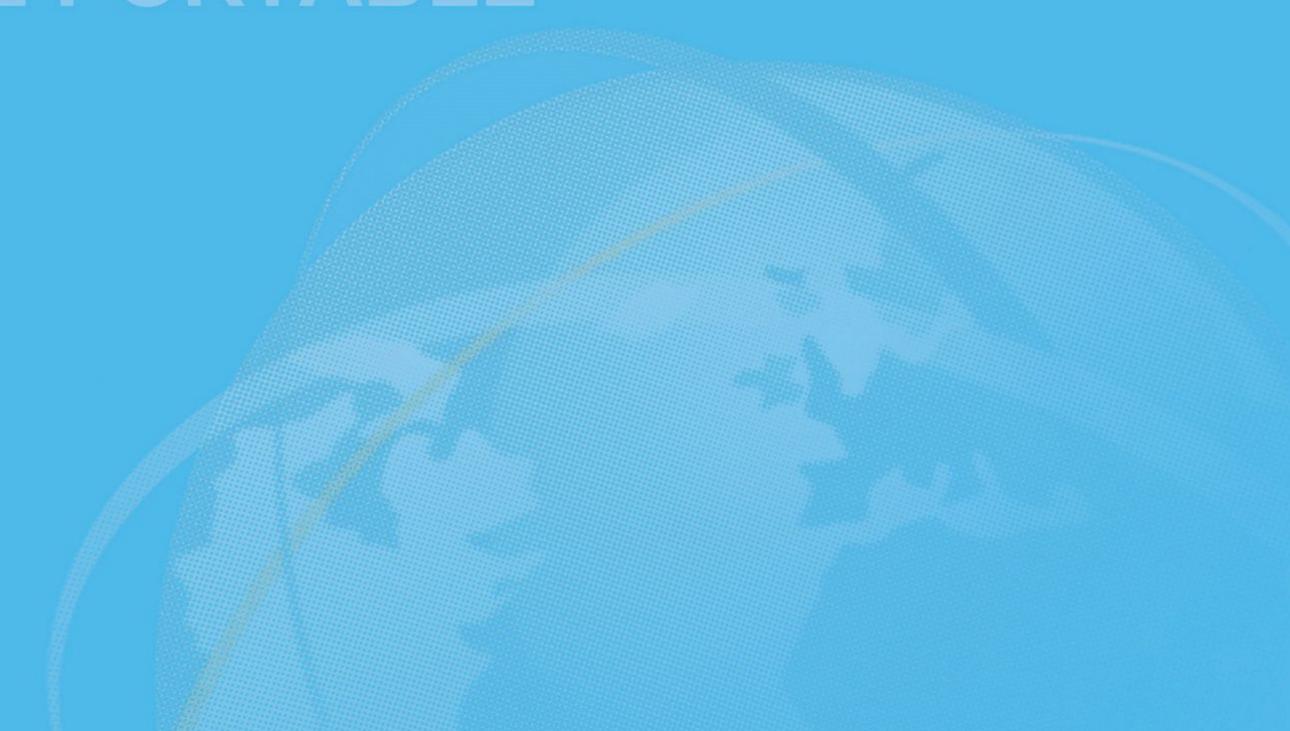


2-Channel Gold Mount Battery Charger

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