


Home > Battery > V-mount

PB-H290S | 290Wh Intelligent Bi-voltage Battery Pack



- > 14.4V/28.8V Bi-voltage auto switch
- > For ALEXA LF/65 high voltage cameras
- > For all normal voltage cameras
- > For high voltage cine lights
- > Compatible with normal voltage chargers
- > 290Wh capacity, at least 250W high load
- > 6A super fast charging
- > 8-LED remaining time indicators
- > D-tap power output socket
- > Normal V-mount connection
- > 1.5m drop-off proof, IP54 water proof
- > Multiple circuit protections



 MSRP Ex TAX / Shipping

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14.4V/28.8V Bi-Voltage

For ALEXA LF/65 and all normal cameras

The great solution to power ARRI Alexa LF/65 high voltage cameras: SWIT Intelligent Bi-voltage Battery, which can output both 11-16.8V normal voltage and 22-33.6V high voltage, with auto recognition and switching by the dedicated V-mount plate, compatible with Alexa LF/65 and all other normal cameras and devices, with no risk of misusing.

14.4V/28.8V Auto Switching

By Alexa dedicated plate KA-A20S

The Bi-voltage battery PB-H290S output normal 11-16.8V voltage as default, you can attach to any normal V-mount cameras or other devices, and any normal voltage chargers. Use the ARRI ALEXA dedicated V-mount plate KA-A20S, PB-H290S battery can recognize and auto switch on 22-33.6V, to power Alexa LF/65/SXT/AMIRA.

* KA-A20S Plate: CNC metal housing, High load power pins, D-tapx2 (16V), 2-pin LEMO (16V), USBx1 (5V/2A) Officially Recommended by ARRI

14.4V/28.8V Auto Switching

By "Magic Sticker" on normal V-plates

Beside ALEXA cameras, many Cine Lights are also designed high voltage input, to reduce current effectively, and protect power pins and ensure the reliability. You can easily put on a "Magic Sticker" on the particular position of all standard V-mount plates, then PB-H290S battery can recognize and auto switch on 22-33.6V output mode.



290Wh Capacity, 250W High Load

PB-H290S consists of 24pcs high class 18650 battery cells, and reaches 290Wh high capacity. PB-H290S supports Max 250W constant power output, can drive ALEXA LF (160W) more on-camera monitors or wireless simultaneously. The high load battery will have longer life time than normal battery if always under full load power.

6A Super Fast Charging

Using SWIT super fast charger

PB-H290S supports 6A fast charging by SWIT S-3812S or PC-P460S super fast charger, to save up to 60% charging time, can be charged from 0 to 80% after 2 and half hours, and fully charged within 3 hours 50 minutes.



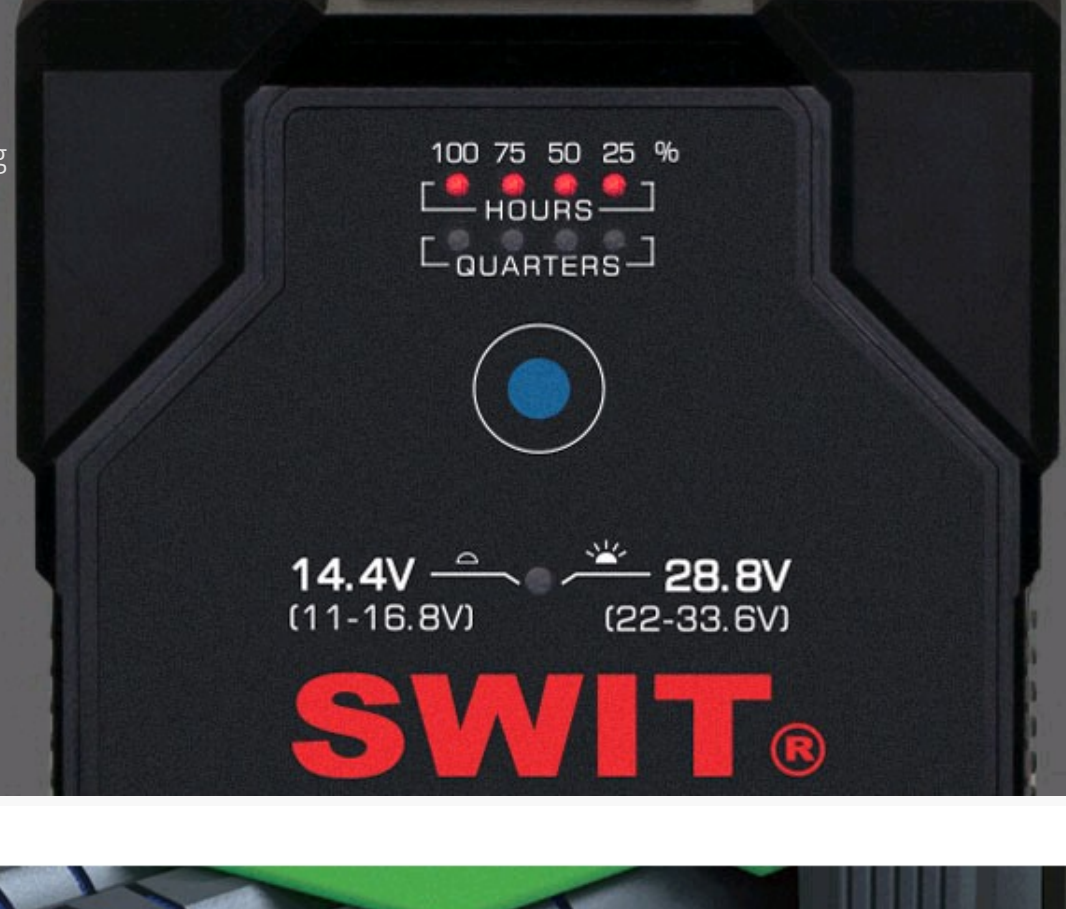
D-tap Socket

A D-tap DC output socket is equipped on the top side of the battery pack, to power the other on-camera equipment together. Under 14.4V (11-16.8V) output mode, D-tap output 11-16.8V and Max load 120W/10A; Under 28.8V (22-33.6V) output mode, D-tap output constant 16V and Max load 50W/3A;

Digital Power Indicator

8-LED remaining time read

When battery is discharging: Press "Power Check" button, Upper 4 LEDs display remaining working hours, and Lower 4 LEDs display remaining working minutes, under current output power. The LED will flash when remaining time is less than 15 minutes to remind changing battery. When battery is charging: Upper 4 LEDs flashing constantly, indicates the real-time capacity percentage 25%, 50%, 75% and 100%. When battery is free: Press "Power Check" button, Upper 4 LEDs light up, to indicate the remaining capacity percentage 25%, 50%, 75% and 100%.



Strong 1.5m Drop-off Proof

Dual housing + Rubber cover

PB-H290S has innovative dual housing structure: the inner cell cage and outer anti-shock housing with rubber covers. The new structure makes the battery quite strong, anti-shock. The battery can survive from 1.5 meters any angles drop-off.

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Intelligent Bi-Voltage Battery

ALEXA LF/65 High Voltage Power Solution

■ Introduction

The latest released ARRI Alexa LF and Alexa 65 require on-board battery input voltage 19.5-34V only, and the normal 14.4V (11-16.8V) batteries are no longer compatible with Alexa LF or 65.

There're existing standard V-mount batteries of 26-28.8V high voltage output, to power Alexa LF/65, but the high voltage with the same physical connectors will surely damage other normal V-mount cameras. And the normal voltage on-camera devices can't get power from the high voltage battery as well.

Also there're better solutions to do DC boost in the dedicated V-mount plate, and can use normal 14.4V battery to power Alexa LF/65. Anyway, the current between battery and V-plate will get quite high with 160W load and 14.4V voltage, and will melt the battery pins if the battery quality is not good enough. In addition, there's power lost because of DC boost efficiency.

Now you will have a great solution for Alexa LF/65: the SWIT Intelligent Bi-voltage Battery, can output both 11-16.8V normal voltage and 22-33.6V high voltage, with auto recognition and switching by the dedicated V-mount plate, compatible with Alexa LF/65 and all other normal cameras and devices, with no risk of misusing. (Patented)



PB-H290S

Bi-voltage Battery
14.4V/28.8V, 290Wh

- ◆ Strong structure battery, **1.5 meters** drop-off proof
- ◆ **Bi-voltage:** 14.4V (11-16.8V) & 28.8V (22-33.6V)
- ◆ 14.4V/28.8V auto recognition and switching
- ◆ D-tap always output 14.4V for on-camera devices
- ◆ 290Wh high capacity, **Max 200W high load**
- ◆ Compatible with all normal voltage chargers
- ◆ Max 6A fast charging (by SWIT S-3812S charger)
- ◆ 8-LED remaining run time indicators

- ✓ ALEXA 65/LF/SXT high voltage
- ✓ All normal voltage cameras
- ✓ High voltage Cine Lights
- ✓ All normal voltage chargers

How to active 22-33.6V high voltage output of PB-H290S

The Bi-voltage battery PB-H290S output normal 11-16.8V voltage as default, you can attach to any normal V-mount cameras or other devices, and any normal voltage chargers.

To power ALEXA LF/65, or high voltage cine lights, you need to active the 22-33.6V high voltage output.

To avoid misusing of high voltage battery to normal voltage cameras (will damage the normal cameras), we don't provide a physical "voltage switcher" on the PB-H290S battery.

Instead, we use an intelligent Auto Switching solution, to active the high voltage of PB-H290S battery by battery plate recognition:

Use SWIT dedicated V-mount plate KA-A20S

To active 22-33.6V for Alexa LF/65/SXT/AMIRA

◆ Compatible camera models:

ARRI ALEXA 65; ALEXA LF; ALEXA SXT; AMIRA

◆ Batteries fit:

PB-H290S and all other normal V-mount batteries

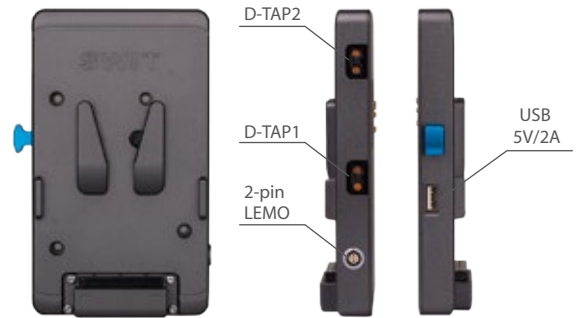
For PB-H290S, the plate will active 22-33.6V power to cameras

For other batteries, the plate will output the battery voltage to camera.

◆ Features

CNC housing, High load pins,

D-tapx2 (16V), 2-pin LEMO (16V), USBx1 (5V/2A)



KA-A20S

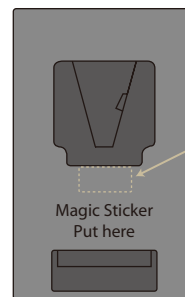
For ALEXA 65; ALEXA LF; ALEXA SXT; AMIRA
Active 22-33.6V voltage of PB-H290S

Use SWIT Magic Sticker on normal V-mount plates

To active 22-33.6V for high voltage Cine Lights

For other high voltage capable equipments, like SkyPanels or other Cine Lights, the 22-33.6V battery power supply will reduce current effectively, protect the battery and ensure the reliability.

To use PB-H290S on these high voltage equipments with standard V-mount plate, you can easily put on a Magic Sticker onto the particular position of the V-mount plate, to active 22-33.6V output of the PB-H290S battery.



Magic Sticker



For high power Cine Lights:
Put Magic Sticker to this position of any V-mount plate, to active 28.8V (22-33.6V) voltage output of PB-H290S battery.

Comparison of Common ALEXA LF Power Solutions

Description	Solution 1 Pure 26-28.8V battery with same physical pins	Solution 2 Pure 26-28.8V battery with different pins arrangements	Solution 3 Normal 14.4V battery with voltage raise in V-plates	SWIT Solution 14.4V/28.8V Bi-voltage switching inside Battery
Battery plate to ALEXA	Normal V mount plate	Dedicated V mount plate	Dedicated V mount plate	Dedicated or Normal V-plate
Use on normal 14.4V cameras	✗ - Dangerous	✗	✓	✓
Charge by normal 14.4V charger	✗	✗	✓	✓
Battery outputs 14.4V D-tap	✗	✗	✓	✓
Current load on ALEXA LF	Lower current, safe	Lower current, safe	High current, hot and unreliable	Lower current, safe

100 75 50 25 %

[HOURS]

[QUARTERS]



14.4V  28.8V
(11-16.8V) (22-33.6V)

SWIT[®]

PB-H290S

14.4V/28.8V, 290Wh

14.4V / 28.8V Bi-Voltage
Heavy Duty Li-ion Battery

250W HIGH LOAD	6A CHARGE	INFO POWER	1.5 METERS DROP PROOF
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MADE IN CHINA



100 75 50 25 %

[HOURS]

[QUARTERS]



14.4V  28.8V
(11-16.8V) (22-33.6V)

SWIT[®]

PB-H290S

14.4V/28.8V, 290Wh

14.4V / 28.8V Bi-Voltage
Heavy Duty Li-ion Battery

250W HIGH LOAD 6A CHARGE INFO POWER 1.5 METERS DROP PROOF

CE UK CA  

MADE IN CHINA



MADE IN CHINA

CE
RECYCLED MATERIALS
RECYCLED PLASTIC
RECYCLED METAL

1.4V Li-ion Battery
Heavy Duty Li-ion Battery

1.4V / 8.9V 8I-Voltage
1.4V/28.9V 290mAh

SWiTT
PB-H290S

1.4V (1.1-1.6V)
8.9V (2.2-3.2V)



100 75 50 25 0h
[] hours
[] quarters

DC OUT MAX 10A