

SWIT®

Rechargeable Li-ion Battery Pack

Ver:F

USER MANUAL

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Congratulations on your purchase of this product. Please read this user manual carefully.

Warning

Keep in mind the following precautions to avoid fire and other safety hazards !

- Do not use battery in fire or hot places to prevent overheating, cracking and other hazards.
- Please do not pierce the battery shell or try to open the shell and decompose the battery.
- Do not use battery beyond charge, discharge and storage environment temperature.
- Do not charge the battery in the car or in direct sunlight.
- Do not use damaged battery.
- Do not squeeze the battery shell which may cause physical damage.
- Make sure the power-consuming equipment(s) meet the battery specifications.
- Use SWIT charger or SWIT recommended charger to charge the battery to avoid overheating or beak.
- Keep out of the reach of children.

Description of appearance

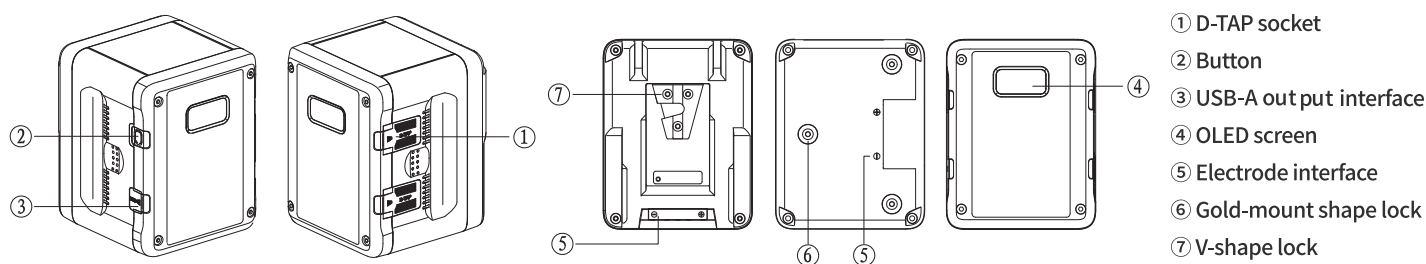


Fig 1: PB-S220S/A

Caution

- Fully charged battery will discharge naturally and please use it as soon as it gets charged.
- The battery may become warm in use or while being charged. This is normal.
- Never expose the battery to temperature above 60°C.
- Keep the battery terminals clean and never short-circuit the battery terminals.
- When stored for a long time, please keep the battery power between 50% and 90%.
- Battery will automatically enter the sleep mode if rest in 10 days, the output will be shut off. Press the button to restore output.

Features

- High performance rechargeable lithium ion battery, no memory effect.
- OLED screen display battery capacity and remaining running time.
- Built in multiple control circuit, to protect the battery all-round regarding temperature, voltage and current.
- D-tap DC output, to power the camera and other equipment simultaneously.
- USB-A 5V/2A output, which can be used to charge mobile phones, tablets and other portable devices.
- 6A fast charging (only PB-S220A/S by using SWIT fast charging charger).

Charging

- After the battery is plugged into the charger, a lightning icon will appear in the OLED to indicate that it enters the charging state.
- The battery can be charged at a temperature range of 0~40°C, but we recommend charging at a temperature range of 10~30°C to ensure the best performance of the battery.
- During battery charging, press the button to turn on the USB-A output.

Discharging

- The battery can discharge at a temperature range of -20°C~50°C, but it is suggested to discharge at a temperature range of -10~40°C for the best.
- During the battery discharge, after pressing the button, OLED displays the remaning time and turns on USB-A output. Press the button briefly to switch to display the percentage of battery power, and press the button long to display the battery cycle times from 0 to 999.
- In low temperature, the internal resistance of the battery will increases, the discharging time will be shortened, and the load may be automatically cut off when the load is heavier.
- The USB-A output will shut off if the load is too heavy, press the button to restore.

OLED display instruction

1. Battery in rest or charging status

- ① Display Capacity percentage;
- ② Press the button long to display battery cycle time from 0 ~ 999;
- ③ Lightning icon is displayed during charging.



2. Battery in discharging status

- ① Display remaining working time;
- ② Press button short to display the remaining capacity percentage;
- ③ If the working time is less than ten hours, it will be displayed as 0~9hours59minutes;
- ④ If the working time is more than ten hours, it will be displayed as the remaining working hours.



3. OLED alarm code description



- ① Over temperature protection, please remove the battery and place at room temperature to recover
- ② Low temperature protection, please remove the battery and place at room temperature to recover
- ③ There are three possibilities:
 - a. Over load protection, please remove the battery, and it will restore after 30 seconds' standing.
 - b. The load is too heavy, please remove the battery, and it will restore after 30 seconds' standing.
 - c. Battery short circuit, please make sure that there is no foreign body between the electrodes or remove the battery, and it will restore after 30 seconds' standing.
- ④ Run out of power, please charge the battery asap.
- ⑤ E01 ~ E03: Not recoverable error, please contact manufacturers to repair, do not disassemble the battery;
- ⑥ When the battery rests over 10 days or runs out of power ,it will enter sleep mode and the OLED will not display.

Specification

Model			PB-S98S	PB-S98A	PB-S146S	PB-S146A	PB-S220S	PB-S220A	PB-S290S
Battery plate			V-mount	Gold-mount	V-mount	Gold-mount	V-mount	Gold-mount	V-mount
Nominal voltage			14.4V						
Capacity			98Wh,6.8Ah		146Wh,10.1Ah		220Wh,15.3Ah		290Wh,20.1Ah
Interface	Electrode Interface	Output	150W,12A		200W,16A				
		Input	16.8V,5A Max		16.8V,5.5A Max		16.8V,8A Max		
	D-TAP	Output	150W,12A		200W,16A				
		Input	16.8V,5A Max		16.8V,5.5A Max		16.8V,8A Max		
	USB-A	Output	10W,5V---2A						
	total output		150W		200W				
Dimension (mm)			121×95×59	121×95×62	121×95×59	121×95×62	121×95×96	121×95×99	121×95×96
Net weight			0.809kg	0.800kg	0.878kg	0.873kg	1.440kg	1.435kg	1.440kg
D-TAP socket number			2				4		
USB socket number			1						
Charging temperature			0 ~ 40℃ (10 ~ 30℃ recommended)						
Discharging temperature			-20℃~ 50℃ (-10 ~ 40℃ recommended)						