

## Battery Charger Chargeur de Batterie 電池充電器

Operating Instructions/Mode d'emploi/Istruzioni per l'uso/Οδηγίες Χειρισµιάς/

使用説明書/تعليمات التشغيل

<b>1</b>	<b>InfoLITHIUM</b> <b>V</b>	<b>1</b>	<b>InfoLITHIUM</b> <b>H</b>
<b>2</b>	<b>InfoLITHIUM</b> <b>W</b>	<b>1</b>	<b>InfoLITHIUM</b> <b>M</b>

<b>1</b>	<b>InfoLITHIUM</b> <b>V</b>	<b>2</b>	<b>InfoLITHIUM</b> <b>H</b>
<b>2</b>	<b>InfoLITHIUM</b> <b>W</b>	<b>1</b>	<b>InfoLITHIUM</b> <b>M</b>

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**A**

- Charging status indicator lamp
- CHARGE lamp
- Quick charge button
- USB connector
- Battery terminal (for M series)
- Battery terminal (for V/H/P series)
- 7 Battery terminal (for W series)
- ▲ mark (for M/V/H/P series)
- ▲ mark (for W series)
- AC input terminal
- Power cord (Mains lead)
- wall outlet (wall socket)
- wall outlet (wall socket)
- USB rechargeable device (Video camera, etc.)
- USB cable compatible with your device

**B**

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10

**C**

**D**

**E**

**F**

##### English

Thank you for purchasing the Sony Battery charger.

Before operating this Battery charger, please read this manual thoroughly and retain it for future reference.

### Features

The BC-QM1 Battery Charger can be used as follows.

- This unit can charge or power Sony devices (video cameras etc.) using a USB cable compatible with your device. (USB AC adaptor function)
- This unit can be used as a charger for Sony “InfoLITHIUM” battery packs (V series/H series/P series/W series/M series). (Battery charger function)

**Operation mode of this unit**

- The USB AC adaptor function and battery charger function can be used at the same time. (Simultaneous charge mode)
- You can make this unit charge a battery pack quicker than usual by pressing the quick charge button. (Quick charge mode)

Operation mode	Battery charging	USB output	Quick charge button
Simultaneous charge mode	Normal charging	Enabled	Off
Quick charge mode	Quick charging	Disabled	On

- “InfoLITHIUM” battery packs (V series/H series/P series/W series/M series) have the **Ⓜ** **Ⓛ** **Ⓢ** mark.
- “InfoLITHIUM” is a trademark of Sony Corporation.
- This unit cannot be used to charge a nickel cadmium battery pack or nickel metal hydride battery pack.
- This unit can be only be used to charge “InfoLITHIUM” battery packs (V series/H series/P series/W series/M series).

<b>A E F</b> Identifying the parts	
1 Charging status indicator lamp	9 ▲ mark (for W series)
2 CHARGE lamp	10 AC input terminal
3 Quick charge button	11 Power cord (Mains lead)
4 USB connector	12 to wall outlet (wall socket)
5 Battery terminal (for M series)	13 to wall outlet (wall socket)
6 Battery terminal (for V/H/P series)	14 USB rechargeable device (Video camera, etc.)
7 Battery terminal (for W series)	15 USB cable compatible with your device
8 ▲ mark (for M/V/H/P series)	

### To Charge the Battery Pack

The battery pack is charged by attaching it to this unit.

1 **Attach the battery pack.**

**InfoLITHIUM V/H/P series** (See illustration **B**)

**InfoLITHIUM M series** (See illustration **C**)

Ⓛ Align the ▲ mark on the battery pack in the direction of the ▲ mark on this unit and insert it.

Ⓢ Slide the battery pack in the direction illustrated.

**InfoLITHIUM W series** (See illustration **D**)

Ⓛ Align the ▲ mark on the battery pack in the direction of the ▲ mark on this unit, and bring the battery pack into contact with the battery terminal (for W series) of this unit.

Ⓢ Press the battery pack in the direction illustrated until it is flat inside this unit.

2 **Connect the power cord (mains lead) to this unit and then to a wall outlet (wall socket)** (See Illustration **E**).
The CHARGE lamp (orange) lights up and charging begins. The CHARGE lamp goes out when the battery pack is about 90 % charged.

The charging status indicator lamp goes out when charging is completed. (Full charge)

**Notes**

- Do not lift this unit by the battery pack.
- Be careful not to hit the battery pack against this unit.
- Be careful not to catch your fingers when attaching and removing the battery pack.

#### To remove the battery pack

**InfoLITHIUM V/H/P series**

**InfoLITHIUM M series**

Remove the battery pack by sliding it in the opposite direction to when you attached it.

**InfoLITHIUM W series**

Lift the battery pack up and remove it.

You can check the approximate charging status with the charging status indicator lamp.

	<span>☐</span> , <span>Ⓞ</span> ... Off, <span>■</span> , <span>●</span> ... Lit Up
Immediately after attaching the battery pack - 30 <span> </span> %	<span>☐☐☐☐</span> <span>●</span>
30 <span> </span> % - 60 <span> </span> %	<span>☐☐■☐</span> <span>●</span>
60 <span> </span> % - 90 <span> </span> %	<span>☐☐■■☐</span> <span>●</span>
90 <span> </span> % - Full charge	<span>☐☐■■■☐</span> <span>●</span>
Full charge completed	<span>☐☐☐☐</span> <span>☐</span>

The charge level shown by the charging status indicator lamp and the percentages in the above table are rough guides.
The actual status may differ depending on the ambient temperature or the condition of the battery pack.

#### Charging time

The following table shows the charging time for a battery pack that is completely discharged.

Battery pack	NP-FH50	NP-FV50	NP-FV70	NP-FV100
Full charge time	170	195	400	750

Battery pack	NP-FW50	NP-FM500H	NP-FM50	NP-QM71D	NP-QM91D
Full charge time	145	270	205	395	620

- Approximate number of minutes to charge an empty battery pack.
- For more about the battery life, see the instruction manual of your device.

- The charging time may differ depending on the condition of the battery pack or the ambient temperature.
- The times shown are for charging an empty battery pack which has been run down with a device, using this unit at an ambient temperature of 25 °C (77 °F).

**Charging temperature**
The temperature range for charging is 0 °C to 40 °C (32 °F to 104 °F). For maximum battery efficiency, the recommended temperature range when charging is 10 °C to 30 °C (50 °F to 86 °F).

#### Notes

- If the CHARGE lamp does not light up, check if the battery pack is firmly attached to this unit.
- When a fully charged battery pack is installed, the CHARGE lamp lights up once and then goes out.
- A battery pack that has not been used for a long time may take longer than usual to charge.

### Use this unit with the USB cable (See illustration **F**)

1 **Connect your device to this unit.**

2 **Connect the power cord (mains lead) to this unit and then to a wall outlet (wall socket).**
Powering starts automatically. Powering does not start if the quick charge button is lit. Press the quick charge button to turn it off before using this unit.

3 **After the device is completely recharged, unplug this unit and disconnect the device from this unit.**

#### Notes

- A USB cable is not supplied with this unit. Prepare a USB cable compatible with your device.
- You may need to perform some operation on your device to use the USB AC adaptor function of this unit. The operation and specifications differ depending on your device model. For details, refer to the instruction manuals of your device.

### Connecting this unit to a device via USB cable while still charging the battery pack (Simultaneous charge mode)

This unit can charge a battery pack and power a device connected via USB cable at the same time.
For details on attaching a battery pack to this unit, see “To Charge the Battery Pack.”
For details on connecting to a device, see “Use this unit with the USB cable.”

### Charging in a shorter time (Quick charge mode)

During battery pack charging, press the quick charge button to charge in a shorter time.

The quick charge button lights up orange during quick charge mode.

#### Notes

- “Simultaneous charge mode” and “Quick charge mode” cannot be used at the same time.
- When quick charge is started, powering to a device connected via USB cable stops. Always check the status of your device before use.
- When quick charge is completed, powering to the device connected via USB cable restarts.
- This unit will not switch to quick charge mode if no battery pack is attached. Always attach a battery pack to this unit before operating the quick charge button.

#### Charging time in quick charge mode

Battery pack	NP-FH50	NP-FV50	NP-FV70	NP-FV100
Full charge time	70	80	125	230

Battery pack	NP-FW50	NP-FM500H	NP-FM50	NP-QM71D	NP-QM91D
Full charge time	115	160	140	225	330

- Approximate number of minutes to charge an empty battery pack.
- The charging time may differ depending on the condition of the battery pack or the ambient temperature.
- The times shown are for charging an empty battery pack which has been run down with a device, using this unit at an ambient temperature of 25 °C (77 °F).

This unit supports worldwide voltages 100 V to 240 V. Do not use an electronic voltage transformer, as this may cause a malfunction.
The shape of wall outlets (wall sockets) differs depending on the country and region. Check before departure.

### Troubleshooting

When the CHARGE lamp blinks, check through the following chart.

**The CHARGE lamp blinks in two ways.**
Blinks slowly: Turns on and off repeatedly every 1.5 seconds
Blinks quickly: Turns on and off repeatedly every 0.15 seconds
The action to be taken depends on the way the CHARGE lamp blinks.

**When the CHARGE lamp keeps blinking slowly**
Charging is pausing. This unit is in the standby state. If the room temperature is out of the appropriate temperature range, charging stops automatically.

When the room temperature returns to the appropriate range, the CHARGE lamp lights up and charging restarts.

We recommend charging the battery pack at 10 °C to 30 °C (50 °F to 86 °F).

**When the CHARGE lamp keeps blinking quickly**

When charging the battery pack for the first time in one of the following situations, the CHARGE lamp may blink quickly. If this happens, remove the battery pack from this unit, reachat it and charge it again.

- When the battery pack is left for a long time
- When the battery pack is left installed in the camera for a long time
- Immediately after purchase

If the CHARGE lamp keeps blinking quickly, check through the following chart.

Remove the battery pack that is being charged and then firmly attach the same battery pack again.

<b>The CHARGE lamp blinks again:</b> Install another battery pack.	<b>The CHARGE lamp lights up and does not blink again:</b> If the CHARGE lamp goes out because the charging time has passed, there is no problem.
<b>The CHARGE lamp blinks again:</b> The problem is with this unit.	<b>The CHARGE lamp lights up and does not blink again:</b> If the CHARGE lamp goes out because the charging time has passed, the problem is with the battery pack first installed.

<b>The CHARGE lamp blinks again:</b> The problem is with this unit.	<b>The CHARGE lamp lights up and does not blink again:</b> If the CHARGE lamp goes out because the charging time has passed, the problem is with the battery pack first installed.
<b>Please contact your nearest Sony dealer</b> in connection with the product that may have a problem.	

**The battery pack cannot be charged.**

- This unit is not connected to the wall outlet (wall socket).
→ Connect the power cord (mains lead) to this unit and the wall outlet (wall socket) properly.
- The battery pack is not firmly attached.
→ Attach the battery pack to this unit correctly.

**The device connected by the USB cable does not work.**

- This unit is not connected to the wall outlet (wall socket).
→ Connect the power cord (mains lead) to this unit and the wall outlet (wall socket) properly.
- The device connected to this unit may need to be operated.
→ Refer to the instruction manual of the connected device.
- This unit is set to quick charge mode.
→ When this unit is set to quick charge mode, powering the device connected with a USB cable is stopped. Operate the quick charge button and check that its light is off.

### Specifications

Input rating 100 V - 240 V AC 50 Hz/60 Hz 0.38 A

Output rating 8.4 V DC 1,600 mA (BATTERY CHARGE) 5.0 V DC 1,500 mA (USB POWER 5V 1500mA)

Operating temperature 0 °C to 40 °C
Storage temperature –20 °C to +60 °C
Dimensions (Approx.) 67 mm × 49 mm × 105 mm (w/h/d)
Mass Approx. 170 g
Included items Battery Charger (BC-QM1) (1) AC Power cord (1) Set of printed documentation

Design and specifications are subject to change without notice.

#### Precautions on Use

- Unplug this unit from the wall outlet (wall socket) after use. To disconnect the power cord (mains lead), pull it out by the plug. Never pull the power cord (mains lead) itself.
- The USB connector of this unit is for output only. Do not connect it to the USB port of a computer, etc. Doing so may cause a malfunction.
- Some USB rechargeable devices cannot be used with this unit. Also, some devices may not be operable while recharging. Check the charging specifications in the instruction manual of your device.
- When you use the USB connector of this unit, attach a battery pack to the connected device. Not doing so may cause data loss from the device or damage due to the device crashing.
- Be warned that some devices may suddenly lose their input memory regardless of whether they are used with the USB connector of this unit. (For details, refer to the instruction manual supplied with your device.) Always back up the input memory beforehand. Sony is not liable for any loss of input memory when using this unit.
- Make sure before using this unit that its current and voltage match those of the outlet.
- Depending on the conditions of use of this unit’s USB connector, this unit may automatically shut down for safety reasons if the input current is too high.
- Sony does not guarantee operation of this unit if you use it with a USB hub or USB extension cable. Always follow the designated connecting method of the USB cable supplied with your device.
- When not using this unit, disconnect the USB cable from its USB connector and store it.

##### Français

Merci pour l’achat de ce chargeur de batterie Sony.

Avant d’utiliser ce chargeur de batterie, veuillez lire attentivement ce manuel et le conserver pour toute référence future.

### Caractéristiques

**Le chargeur de batterie BC-QM1 peut être utilisé de la façon suivante.**

- Cet accessoire peut charger ou alimenter les appareils Sony (caméscopes, etc.) utilisant un câble USB compatible avec votre appareil. (Fonction Adaptateur secteur-USB)
- Cet accessoire peut être utilisé comme chargeur pour les batteries InfoLITHIUM • Sony (série V/série H/série P/série W/série M). (Isolé- Chargeur de batterie)

**Mode de fonctionnement de cet accessoire**

- La fonction Adaptateur secteur-USB et la fonction Chargeur de batterie peuvent être utilisées en même temps. (Mode de charge simultanée)
- En appuyant sur le bouton de charge rapide de cet accessoire, vous pouvez obtenir une charge de la batterie plus rapide qu’à l’ordinaire. (Mode de charge rapide)

Mode de fonctionnement	Charge de la batterie	Sortie USB	Bouton de charge rapide
Mode de charge simultanée	Charge normale	Activée	Désactivée
Mode de charge rapide	Charge rapide	Désactivée	Activée

- Les batteries « InfoLITHIUM » (série V/série H/série P/série W/série M) portent la marque **Ⓜ** **Ⓛ** **Ⓢ**.
- « InfoLITHIUM » est une marque commerciale de Sony Corporation.
- Cet accessoire ne peut pas être utilisé pour charger une batterie au nickel-cadmium ou une batterie au nickel-hydrure métallique.
- Cet accessoire ne peut être utilisé que pour charger les batteries « InfoLITHIUM » (série V/série H/série P/série W/série M).

<b>A E F</b> Identification des éléments	
1 Témoin d'état de charge	9 Repère ▲ (pour la série W)
2 Témoin CHARGE	10 Borne d'entrée CA
3 Bouton de charge rapide	11 Cordon d'alimentation
4 Connecteur USB	12 À une prise murale
5 Borne de batterie (pour la série M)	13 À une prise murale
6 Borne de batterie (pour la série W)	14 Appareil rechargeable par V/H/P
7 Borne de batterie (pour la série W)	15 Câble USB compatible avec votre appareil
8 Repère ▲ (pour la série M/V/H/P)	

### Pour charger la batterie

La batterie rechargeable se charge lorsqu’elle est insérée dans cet appareil.

1 **Insérez la batterie.**

**Série InfoLITHIUM V/H/P (Voir l’illustration **B**)**

**Série InfoLITHIUM M (Voir l’illustration **C**)**

Ⓛ Alignede le repère ▲ sur la batterie dans le sens du repère ▲ sur cet accessoire et insérez la batterie.

Ⓢ Faites glisser la batterie dans le sens indiqué.

**Série InfoLITHIUM W (Voir l’illustration **D**)**

Ⓛ Alignede le repère ▲ sur la batterie dans le sens du repère ▲ sur cet accessoire et mettez la batterie en contact avec la borne de batterie (pour la série W) de cet accessoire.

Ⓢ Appuyez sur la batterie dans le sens indiqué jusqu’à ce quelle soit à plat dans cet accessoire.

2 **Raccordez le cordon d’alimentation à cet appareil puis à une prise murale (Voir l’illustration **E**).**

Le témoin CHARGE (orange) s’allume et la charge commence. Le témoin CHARGE s’éteint lorsque la batterie est chargée à environ 90 %.

Le témoin d’état de charge s’éteint quand la charge est terminée. (Charge complète)

#### Remarques

- Ne soulevez pas cet accessoire par la batterie.
- Veuillez tout particulièrement à ne pas cogner la batterie contre cet accessoire.
- Faites attention à ne pas vous pincer les doigts lorsque vous insérez ou retirez la batterie.

#### Pour retirer la batterie

**Série InfoLITHIUM V/H/P**

**Série InfoLITHIUM M**

Retirez la batterie en la faisant glisser dans le sens opposé de l’insertion.

**Série InfoLITHIUM W**

Relevez la batterie et retirez-la.

Le témoin d’état de la charge vous donne une idée approximative de l’état de charge de la batterie.

	Témoin d'état de la charge	Témoin CHARGE
Immédiatement après l'installation de la batterie rechargeable - 30%	<span>☐☐☐☐</span>	<span>●</span>
30 <span> </span> % - 60 <span> </span> %	<span>☐☐■☐</span>	<span>●</span>
60 <span> </span> % - 90 <span> </span> %	<span>☐☐■■☐</span>	<span>●</span>
90 <span> </span> % - Charge complète	<span>☐☐■■■☐</span>	<span>☐</span>
Charge complète terminée	<span>☐☐☐☐</span>	<span>☐</span>

Le niveau de charge indiqué par le témoin d’état de charge et les pourcentages dans le tableau ci-dessus sont approximatifs. L’état de charge réel peut être différent selon la température ambiante et l’état de la batterie rechargeable.

#### Temps de charge

Le tableau suivant montre le temps de charge pour une batterie rechargeable complètement déchargée.

Batterie rechargeable	NP-FH50	NP-FV50	NP-FV70	NP-FV100
Temps de charge complète	170	195	400	750

Batterie rechargeable	NP-FW50	NP-FM500H	NP-FM50	NP-QM71D	NP-QM91D
Temps de charge complète	145	270	205	395	620

- Nombre approximatif de minutes pour charger une batterie rechargeable vide.
- Pour plus d’informations sur l’autonomie d’une batterie, reportez-vous au mode d’emploi de votre appareil.
- Le temps de charge peut être différent selon l’état de la batterie rechargeable ou la température ambiante.
- Les temps indiqués correspondent à la charge d’une batterie vide usée sur un appareil à une température ambiante de 25 °C.

**Température de charge**
La température doit se situer entre 0 °C et 40 °C pour la charge. Pour une efficacité maximale de la batterie, la température conseillée pour la charge est de 10 °C à 30 °C.

#### Remarques

- Si le témoin CHARGE ne s’allume pas, vérifiez si la batterie rechargeable est bien insérée dans cet appareil.
- Lorsqu’une batterie chargée est installée, le témoin CHARGE s’allume une fois puis s’éteint.
- Une batterie rechargeable qui n’a pas été utilisée pendant longtemps peut être plus longue à charger que la normale.

### Utilisez cet appareil avec un câble USB (Voir l’illustration **F**)



