



BP-GL95A/BP-GL65A/ BP-L80S/BP-L60S

Battery Pack

BP-U90/BP-U60/BP-U30 2BP-U60

Battery Pack

BC-L70/BC-L160/BC-L500

Battery Charger

BC-U2/BC-U1

Battery Charger

AC-DN10/AC-DN2B

AC Adaptor

ACC-U60

Accessory Kit

BKW-L200/BKW-R1/BKW-R4/ BKW-L601/BKP-L551

Battery Adaptor

The importance of power supply in portable equipment markets is continually growing. Demands for smaller size, reduced mass, and extra power are profoundly impacting laptop computer, cellular phone and other mobile markets, and yet power supply needs are incomparably higher in broadcast and professional video applications where environment is a key operational concern.

Sony has an unparalleled track record in the professional video industry, producing an appropriate line of video production equipment according to increasing demands from frontline professionals. Sony power supply systems are designed to answer the essential demands of professional users, providing full functionality and cutting-edge features.

V-mount Batteries

BP-GL Series and BP-L Series Lithium-ion Battery Packs come with a durable V-mount mechanism, which provides high compatibility with a variety of Sony professional camcorders, some portable VTRs, and video monitors. The BP-GL Series boasts high power in a compact and lightweight body, plus intelligent functions. The BP-L Series is characterized by long life.



Improved Cycle Life (BP-GL95A/GL65A)

The BP-GL Series prolongs cycle life over its predecessor model. Utilizing highly durable cells, it retains 30% higher capacity at 250 cycles than its earlier model.*¹

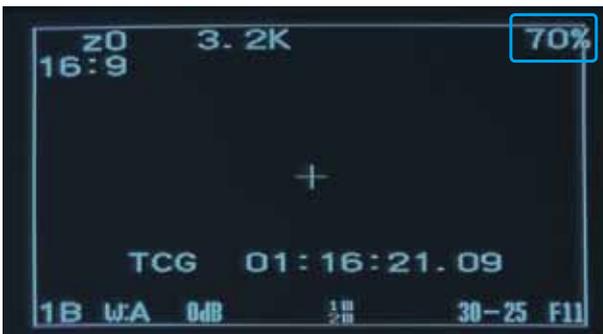
*¹ Actual battery life may vary based on different operating conditions and settings.

Intelligent INFO Function (BP-GL95A/GL65A)

The BP-GL Series is equipped with a professional INFO function that shows the remaining capacity, charging time, and charge cycles on INFO-compatible equipment such as Sony chargers and camcorders.

Battery Remaining Display on Viewfinder

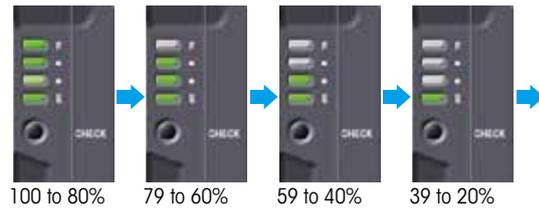
When using the BP-GL Series with a compatible camcorder from Sony, users can see the remaining capacity on the camcorder's viewfinder, in terms of percentage (in 10% steps) or voltage. When using the BP-L Series, the remaining capacity is indicated in terms of voltage.



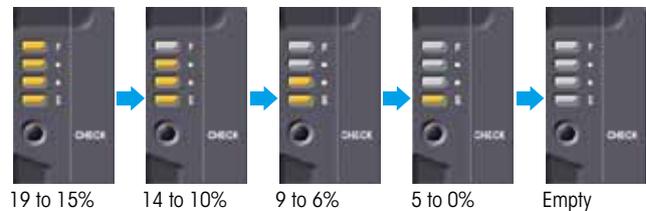
Four-step Remaining Capacity LED Display

The four-step LED display on the side of the battery provides an accurate and at-a-glance indication of remaining capacity.

BP-GL95A/GL65A/L80S/L60S



BP-GL95A/GL65A



Remaining Capacity Indicaion

High Reliability, Compliant with International Transport Regulations

BP-GL and BP-L Series lithium-ion batteries are designed to be highly safe and reliable, compliant with the various international transportation regulations.*¹ They are therefore suitable for the long-term shooting associated with travel.

*¹ All of these lithium-ion battery packs have a rated capacity of less than 100 Wh, and can therefore be transported as non-hazardous lithium-ion batteries. Related laws and regulations are, however, subject to change. For detailed conditions regarding the transport of battery packs, please consult your respective air transport company.

V-mount Battery Lineup

| | BP-GL95A | BP-GL65A | BP-L80S | BP-L60S |
|---|---|---|---|---|
| |  |  |  |  |
| Features | | | | |
| "INFO" function | ● | ● | - | - |
| Remaining capacity display on camcorder | Percentage or voltage | Percentage or voltage | Voltage | Voltage |
| Referenced regulations/guidelines | IATA (International Air Transport Association) transport regulations for regular aircraft transportation, Manual of Tests and Criteria of the UN Recommendations on the Transport of Dangerous Goods, Part III, sub-section 38.3. U.S. Department of Transportation guidelines, FAA safety guidelines | | | |
| Specifications | | | | |
| Maximum voltage | 16.8 V DC | | | |
| Nominal voltage | 14.8 V DC | | 14.4 V DC | |
| Nominal capacity | 98 Wh | 66 Wh | 83.5 Wh | 64.8 Wh |
| Operating temperature | -20°C to +45°C (-4°F to +113°F) | | | |
| Dimensions (W x H x D) | 101 x 169 x 37 mm (4 x 6 5/8 x 1 1/2 inches) | 92 x 138 x 41 mm (3 5/8 x 5 1/2 x 1 5/8 inches) | 101 x 169 x 52 mm (4 x 6 3/4 x 2 1/8 inches) | 101 x 169 x 37 mm (4 x 6 3/4 x 1 1/2 inches) |
| Mass | 765 g (1 lb 11 oz) | 565 g (1 lb 4 oz) | 1100 g (2 lb 7 oz) | 800 g (1 lb 12 oz) |
| Supplied accessory | Operating Instructions (1) | | | |

Approximate Operating Time

| Camcorders | | Batteries (capacity) | | | |
|-------------------|-------------------|----------------------|------------------|-------------------|-------------------|
| Model name | Power consumption | BP-GL95A (98 Wh) | BP-GL65A (66 Wh) | BP-L80S (83.5 Wh) | BP-L60S (64.8 Wh) |
| SRW-9000PL | 65.2 W* | 70 | - | 60 | - |
| HDW-F900R | 38 W* | 120 | 80 | 110 | 80 |
| HDW-650/650P/650F | 39 W* | 120 | 80 | 100 | 80 |
| PDW-700/F800 | 44 W** | 110 | 70 | 90 | 70 |
| PDW-680 | 39 W** | 120 | 80 | 100 | 80 |
| PMW-500 | 29 W** | 160 | 110 | 140 | 110 |
| PMW-350L/350K | 18 W* | 260 | 180 | 220 | 170 |
| PMW-TD300 | 32 W* | 150 | 100 | 130 | 100 |

- The above operating time may change according to operating conditions, and assumes that an on-camera light is not used.

(unit: minutes)

* REC mode with viewfinder.

** REC mode with viewfinder and color LCD ON.

V-mount Battery Chargers

BC-L70



BC-L160



BC-L500



Two-channel Simultaneous Charger

- Compact and lightweight two-channel portable charger
- Quick and efficient simultaneous charging
 - One BP-GL95A battery can be fully charged in approximately 145 minutes
 - Two BP-GL95A batteries can be fully charged in approximately 290 minutes
- Charging mode selectable (full or 90% capacity)
- Max. 100 W DC power supply (XLR-4-pin)

Four-channel Simultaneous Charger

- Compact and lightweight four-channel portable charger
- Quick simultaneous charging
 - One BP-GL95A battery can be fully charged in approximately 145 minutes
 - Four BP-GL95A batteries can be fully charged in approximately 145 minutes
- Battery information display on LCD*¹
 - Displays remaining capacity, remaining charge time, charge/discharge cycles
- Charging mode selectable (full or 90% capacity)
- Max. 100 W DC power supply (XLR-4-pin)

*¹ The battery information display is only available for BP-GL Series.

Desktop-type Four-channel Simultaneous Charger

- Desktop-type four-channel quick charger
- Quick simultaneous charging
 - One BP-GL95A battery can be fully charged in approximately 145 minutes
 - Four BP-GL95A batteries can be fully charged in approximately 145 minutes
- Charging mode selectable (full or 90% capacity)
- Space-saving design
 - 3U high, 19-inch rack mountable
 - Front slot mechanism
 - Two chargers stackable

Specifications

| | BC-L70 | BC-L160 | BC-L500 |
|-------------------------------|---|---|---|
| Power requirements | 100 V AC to 240 V AC, 50/60 Hz | | |
| Power consumption | 168 VA | 480 VA | 480 VA |
| Operating temperature | 0°C to 45°C (32°F to 113°F) | | |
| Dimensions (W x H x D) | 60 x 237 x 134 mm (2 3/8 x 9 3/8 x 5 3/8 inches) | 120 x 180 x 285 mm (4 3/4 x 7 1/8 x 11 1/4 inches) | 435 x 124 x 235 mm (17 1/4 x 5 x 9 3/8 inches) |
| Mass | 1.2 kg (2 lb 10 oz) | 2.6 kg (5 lb 12 oz) | 5.6 kg (12 lb 6 oz) |
| DC output | Max. 16.8 V, 6A | | |
| Number of mountable batteries | 2 | 4 | 4 |
| Chargable battery | BP-GL95A/GL65A/L80S/L60S | | |
| Supplied accessories | Operation Manual (1), AC power cord (USA only) (1), Plug holder (1) | | |

Approximate Charge Time

| Model name (capacity) | BC-L70 | | BC-L160 | | BC-L500 | |
|-----------------------|-----------|-------------|-----------|-------------|-----------|-------------|
| | 1 battery | 2 batteries | 1 battery | 4 batteries | 1 battery | 4 batteries |
| BP-GL95A (98 Wh) | 145 | 290 | 145 | 145 | 145 | 145 |
| BP-GL65A (66 Wh) | 155 | 190 | 155 | 155 | 155 | 155 |
| BP-L80S (83.5 Wh) | 210 | 250 | 210 | 210 | 210 | 210 |
| BP-L60S (64.8 Wh) | 150 | 180 | 150 | 150 | 150 | 150 |

(Unit: minutes)

AC Adaptors

AC-DN10



AC Adaptor/Charger

- Max. 100 W DC power supply
- V-mount mechanism for direct attachment to a compatible camcorder
- XLR-4-pin output for attachment to other equipment
- Compact and lightweight
- Charging capability of a V-mount battery (full charge)
 - BP-GL95A/GL65A/L80S/L60S
- Quick charging
 - One BP-GL95A battery can be fully charged in approximately 145 minutes
- Can charge a V-mount battery while supplying DC power to other equipment

AC-DN2B



AC Adaptor/Charger

- Max. 150 W DC power supply
- V-mount mechanism for direct attachment to SRW-1 or a camcorder
- XLR-4-pin output for attachment to other equipment
- Charging capability of a V-mount battery by 85% capacity
 - BP-GL95A/GL65A/L80S/L60S

Specifications

| | AC-DN10 | AC-DN2B |
|------------------------|--|--|
| Power requirements | 100 V AC to 240 V AC, 50/60 Hz | |
| Operating temperature | 0°C to 45°C (32°F to 113°F) | 0°C to 40°C (32°F to 104°F) |
| Dimensions (W x H x D) | 101 x 169 x 48 mm (4 x 6 3/4 x 1 15/16 inches) | 101 x 169 x 70 mm (4 x 6 3/4 x 2 7/8 inches) |
| Mass | 850 g (1 lb 14 oz) | 950 g (2 lb 2 oz) |
| DC output | 16.7 V, 6 A | 16.7 V, 9 A |
| Supplied accessories | Operational Manual (1), AC power cable cord (angle type) (1) | |

Approximate Charge Time

| Model name (capacity) | AC-DN10 | AC-DN2B |
|-----------------------|---------|---------|
| BP-GL95A (98 Wh) | 145* | 330** |
| BP-GL65A (66 Wh) | 155* | 240** |
| BP-L80S (83.5 Wh) | 200* | 330** |
| BP-L60S (64.8 Wh) | 155* | 270** |

* When using the charging function only.

** Approximate charging time by 85%.

(Unit: minutes)

V-mount Battery Adaptors

BKW-L200



Dual Battery Adaptor

- Extended operating time
- V-mount mechanism for direct attachment to an HDCAM™ or XDCAM™ camcorder
- One or two BP-GL95A batteries can be mounted



BKW-R1



Dual Battery Adaptor for SR-R1

- Simultaneously supplies power to both SR-R1 SRMASTER™ portable recorder and a Sony professional camcorder
- Two XLR-4-pin (female) DC output connectors
- One or two BP-GL95A batteries can be mounted
- Cable length: approximately 300 mm (11 7/8 inch)



BKW-R4



Dual Battery Adaptor for SR-R4

- Enables DC operation of Sony F65 digital motion picture camera and SR-R4 SRMASTER portable recorder
- LEMO 8-pin DC output connector
- One or two BP-GL95A batteries can be mounted
- Approximate 1.8 hours of F65RS operating time with two BP-GL95A batteries
- Cable length: approximately 250 mm (9 7/8 inch)



BKW-L601



Battery Adaptor

- Enables a non V-mount camcorder to mount a V-mount battery
- V-shoe attachment for quick and easy battery change

BKP-L551



Battery Adaptor

- Enables a Sony portable camera to mount a V-mount battery

Specifications

| | BKW-L200 | BKW-R1 | BKW-R4 | BKW-L601 | BKP-L551 |
|------------------------|---|---|---|---|---|
| Dimensions (W x H x D) | 115.5 x 144 x 96 mm (4 5/8 x 5 3/4 x 3 7/8 inches) | 115.5 x 144 x 83 mm (4 5/8 x 5 3/4 x 3 3/8 inches) | 115.5 x 144 x 83 mm (4 5/8 x 5 3/4 x 3 3/8 inches) | 89 x 141.4 x 14.2 mm (3 5/8 x 5 5/8 x 9/16 inches) | 98 x 143 x 23.5 mm (3 7/8 x 5 3/4 x 15/16 inches) |
| Mass | 500 g (1 lb 2 oz) | 650 g (1 lb 7 oz) | 600 g (1 lb 5 oz) | 110 g (4 oz) | 200 g (7 oz) |
| Supplied accessory | Operation Instructions (1) | | | Operation Guide (1) | Operation Manual (1), Attachment (1), Hexagonal wrench (1), M4 x 16 screws (2), M4 x 6 screws (3) |

Batteries for XDCAM Handy Camcorders

Sony provides the BP-U Series compact lithium-ion battery for handy type of XDCAM products. This battery boasts high power in a compact body.



Compact Battery Lineup

Specifications

| | BP-U90 | BP-U60 | 2BP-U60* | BP-U30 |
|------------------------|---|---|--|---|
| |  |  |  |  |
| Maximum voltage | 16.4 V DC | | | |
| Nominal voltage | 14.4 V DC | | | |
| Nominal capacity | 85 Wh | 57 Wh | | 28 Wh |
| Operating temperature | -20°C to +45°C (-4°F to +113°F) | | | |
| Dimensions (W x H x D) | 41.5 x 120.7 x 69.7 mm (1 11/16 x 4 7/8 x 2 3/4 inches) | 41.5 x 82.5 x 69.7 mm (1 11/16 x 3 1/4 x 2 3/4 inches) | | 41.5 x 45.1 x 69.7 mm (1 11/16 x 1 13/16 x 2 3/4 inches) |
| Mass | 630 g (1 lb 6 oz) | 420 g (15 oz) | | 220 g (8 oz) |
| Supplied accessory | Operating Instructions (1) | | | |

* Not available in some countries. Please contact your nearest Sony office or authorized dealer for availability.

Approximate Operating Time

| Camcorders | | Batteries (capacity) | | |
|-------------|-------------------|----------------------|----------------|----------------|
| Model name | Power consumption | BP-U90 (85 Wh) | BP-U60 (57 Wh) | BP-U30 (28 Wh) |
| PMW-F3L/F3K | 18 W* | 250 | 170 | – |
| PMW-100 | 12 W** | 360**** | 240 | 120 |
| PMW-EX3 | 13.5 W*** | 310 | 210 | 100 |
| PMW-EX1R | 12.5 W** | 360 | 240 | 120 |
| PHU-220R | 4 W | – | 240 | 120 |

– The above operating time may change according to operating conditions.

(unit: minutes)

* Dual-Link OFF, REC mode with viewfinder.

** REC mode with viewfinder.

*** REC mode with color LCD ON.

**** When using the PMW-100 with the BP-U90 attached for extended recording periods, Sony recommends attaching the camcorder to a tripod.

Compact Battery Chargers and Accessory Kit

BC-U2



Two-channel Simultaneous Battery Charger

- Simultaneously charges two BP-U90/U60/U30 batteries
- Can charge one battery while supplying DC power to a camcorder

BC-U1



Battery Charger

- Charges one BP-U90/U60/U30 battery
- 12 V DC power output

ACC-U60



Accessory Kit

- Consists of BC-U2 charger, two BP-U60 batteries, and a 16 GB SxS-1™ memory card

Specifications

| | BC-U2 | BC-U1 |
|-------------------------------|---|---|
| Power requirements | 100 V AC to 240 V AC, 50/60 Hz | |
| Power consumption | 85 W | 38 W |
| Operating temperature | 0°C to 45°C (32°F to 113°F) | |
| Dimensions (W x H x D) | 177 x 53.2 x 137 mm (7 x 8 1/8 x 5 1/2 inches) | 128 x 45 x 98 mm (5 1/8 x 1 13/16 x 3 7/8 inches) |
| Mass | 650 g (1 lb 7 oz) | 330 g (12 oz) |
| DC output | 12 V, 2.0 A | |
| Number of mountable batteries | 2 | 1 |
| Chargable battery | BP-U90/BP-U60/U30 | |
| Supplied accessories | Operating Instructions (1), DC output cable (1), Warranty Booklet (1) | |

Approximate Charge Time

| Model name (capacity) | BC-U2 | | BC-U1 |
|-----------------------|-----------|-------------|-----------|
| | 1 battery | 2 batteries | 1 battery |
| BP-U90 (85 Wh) | 190 | 190 | 220 |
| BP-U60 (57 Wh) | 150 | 150 | 170 |
| BP-U30 (28 Wh) | 130 | 130 | 130 |

(unit: minutes)

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