



Power Supply Systems

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

Battery Pack

BC-L70/BC-L160/BC-L500

Battery Charger

AC-DN10/AC-DN2B

AC Adaptor

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

Battery Adaptor

BP-U90/BP-U60/BP-U30

Battery Pack

BC-U2/BC-U1

Battery Charger

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. 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

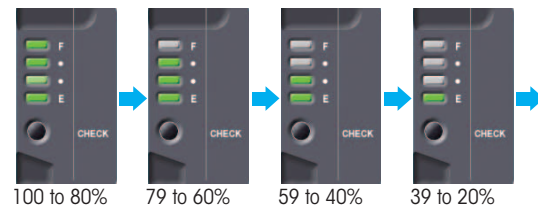
When using the BP-GL Series with a compatible camcorder from Sony, users can see the remaining capacity on the camcorder's viewfinder, in terms of percentage (in 10% steps) or voltage. When using the BP-L Series, the remaining capacity is indicated in terms of voltage.



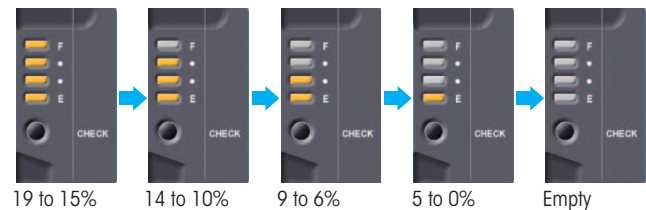
Four-step Remaining Capacity LED Display

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 Indication

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 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	ICAO, 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	-4°F to +113°F (-20°C to +45°C)			
Dimensions (W x H x D)	4 x 6 5/8 x 1 1/2 inches (101 x 169 x 37 mm)	3 5/8 x 5 1/2 x 1 5/8 inches (92 x 138 x 41 mm)	4 x 6 3/4 x 2 1/8 inches (101 x 169 x 52 mm)	4 x 6 3/4 x 1 1/2 inches (101 x 169 x 37 mm)
Weight	1 lb 11 oz (765 g)	1 lb 4 oz (565 g)	2 lb 7 oz (1100 g)	1 lb 12 oz (800 g)
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



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)

BC-L160



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.

BC-L500



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)	2 3/8 x 9 3/8 x 5 3/8 inches (60 x 237 x 134 mm)	4 3/4 x 7 1/8 x 11 1/4 inches (120 x 180 x 285 mm)	17 1/4 x 5 x 9 3/8 inches (435 x 124 x 235 mm)
Weight	2 lb 10 oz (1.2 kg)	5 lb 12 oz (2.6 kg)	12 lb 6 oz (5.6 kg)
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	32°F to 113°F (0°C to 45°C)	32°F to 104°F (0°C to 40°C)
Dimensions (W x H x D)	4 x 6 3/4 x 1 15/16 inches (101 x 169 x 48 mm)	4 x 6 3/4 x 2 7/8 inches (101 x 169 x 70 mm)
Weight	1 lb 14 oz (850 g)	2 lb 2 oz (950 g)
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 11 7/8 inch (300 mm)



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 9 7/8 inch (250 mm)



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)	4 5/8 x 5 3/4 x 3 7/8 inches (115.5 x 144 x 96 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 (115.5 x 144 x 83 mm)	3 5/8 x 5 5/8 x 9/16 inches (89 x 141.4 x 14.2 mm)	3 7/8 x 5 3/4 x 15/16 inches (98 x 143 x 23.5 mm)
Weight	1 lb 2 oz (500 g)	1 lb 7 oz (650 g)	1 lb 5 oz (600 g)	4 oz (110 g)	7 oz (200 g)
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	BP-U30
			
Maximum voltage	16.4 V DC		
Nominal voltage	14.4 V DC		
Nominal capacity	85 Wh	57 Wh	28 Wh
Operating temperature	-4°F to +113°F (-20°C to +45°C)		
Dimensions (W x H x D)	1 11/16 x 4 7/8 x 2 3/4 inches (41.5 x 120.7 x 69.7 mm)	1 11/16 x 3 1/4 x 2 3/4 inches (41.5 x 82.5 x 69.7 mm)	1 11/16 x 1 13/16 x 2 3/4 inches (41.5 x 45.1 x 69.7 mm)
Weight	1 lb 6 oz (630 g)	15 oz (420 g)	8 oz (220 g)
Supplied accessory	Operating Instructions (1)		

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.

* 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.

(unit: minutes)

Compact Battery Chargers and Accessory Kit

BC-U2



BC-U1



ACC-U60



Two-channel Simultaneous Battery Charger

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

Battery Charger

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

Accessory Kit

- Consists of BC-U2 charger 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	32°F to 113°F (0°C to 45°C)	
Dimensions (W x H x D)	7 x 8 1/8 x 5 1/2 inches (177 x 53.2 x 137 mm)	5 1/8 x 1 13/16 x 3 7/8 inches (128 x 45 x 98 mm)
Weight	1 lb 7 oz (650 g)	12 oz (330 g)
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)