



## PRECISION CLUTCH INDUSTRIAL CORDLESS SCREWDRIVERS



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# ESB6 CORDLESS SHUT-OFF CLUTCH SCREWDRIVERS

## 18 VDC Brushless Motor, Li-ion Battery

Add freedom of movement to your assembly process with the ESB6 Series Cordless Screwdrivers. These drivers utilize the same precision shut-off clutch technology that is the foundation of the Electric Screwdriver product line. High-performance 18V Lithium-Ion Batteries provide plenty of power and long run times between charging cycles.

### Torque Range:

1 - 22 Nm (9 - 194 in-lbs).

### Features:

- Precise Shut-off Clutch provides excellent repeatability.
- Hi/Lo Speed Selection switch on screwdriver.
- High performance 18VDC Li-Ion Batteries (purchased separately).
- Slide switch for selection of Forward/Reverse rotation; clutch operates in CCW direction at approx. 30% higher torque level than CW setting.
- Versions available with either internal or external clutch adjustment.
- Green/Red LED's and audible indicators alert operator of proper clutch function at shut-off. A green LED and short beep confirm that the tool has shut-off correctly, a red LED and long beep signal confirms an incorrect cycle.
- To conserve battery life, the screwdriver goes into sleep mode when idle for more than 3 seconds.
- Front facing LED illuminates fastening area when the trigger is pulled.
- LED indicator warns operator of low battery capacity - the red LED will flash when 20% capacity remains and light continuously at 10%.
- Charging Station (purchased separately) provides quick recharge time.



### Specifications

Model Number <sup>(1)</sup>	Range (Nm)	Range (In-lbs)	Speed (RPM) Hi / Lo	Dimensions (mm)(in) Length x Height	Weight (kg)(lbs)	Applicable Batteries / Chargers
Models with external torque adjusting nut and reference scale						
ESB6-X3.5	1 - 3.5	9 - 30	1000 / 650	217 x 196 (mm) 8.5 x 7.7 (in) (less battery)	0.79 kg/1.7lbs (less battery)	<u>Battery:</u> ESB-18VL3000B  <u>Battery Charger:</u> ESB-CHG80/1950B
ESB6-X3.5F	1 - 3.5	9 - 30	2000 / 1300			
ESB6-X6	2 - 6	18 - 53	1000 / 650			
ESB6-X5F	2 - 5	18 - 44	2200 / 1400	233 x 200 (mm) 9.2 x 7.9 (in) (less battery)	1.1 kg/2.4lbs (less battery)	
ESB6-X9	3 - 9	27 - 79	1000 / 650			
ESB6-X12	6 - 12	53 - 106	880 / 570			
Models with internal torque adjustment - open access cover and set using adjusting key						
ESB6-8	4 - 8	36 - 70	1200 / 780	214 x 197 (mm) 8.4 x 7.8 (in) (less battery)	1.0 kg/2.2lbs (less battery)	<u>Battery:</u> ESB-18VL3900 ESB-18VL1950  <u>Battery Chargers:</u> ESB-CHG120/ESB-CHG80
ESB6-12	6 - 12	53 - 106	720 / 450			
ESB6-15	4 - 15	36 - 132	600 / 380	224 x 200 (mm) 8.8 x 7.9 (in) (less battery)	1.2 kg/2.6lbs (less battery)	
ESB6-22	8 - 22	70 - 194	350 / 200			

<sup>(1)</sup> Standard model number is for tool with 1/4" hex bit holder. Add suffix 'SQ' for 3/8" square drive option (eg. ESB6-15SQ)

# ESB6 CORDLESS SHUT-OFF CLUTCH NUT-RUNNERS

## Angle Type Brushless High Torque Battery Screwdrivers Series

**Torque Range:**  
2–60 Nm (1.5–44.2 ft-lbs)

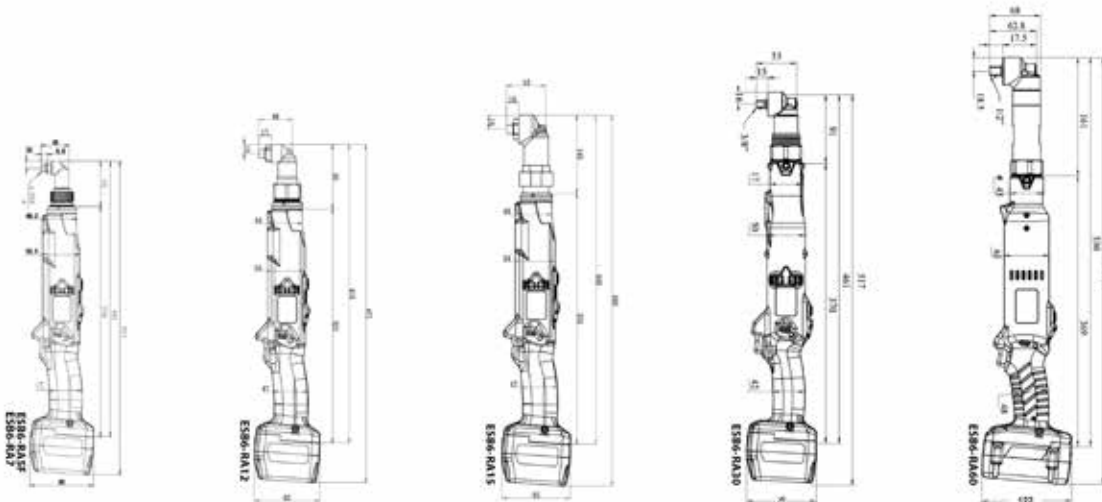
**Features:**

- Precise shut-off clutch provides excellent repeatability and minimizes torque reaction to the operator
- Hi/Lo speed selection switch on nutrunner
- Powerful DC brushless motor
- High performance 18VDC Li-Ion batteries (purchased separately)
- Front facing LED illuminates fastening area when the trigger is pulled
- To conserve battery life, the screwdriver goes into sleep mode when idle for more than 3 seconds
- Includes swivel bail for suspending from tool balancer
- Long service life — Factory tested to 2,000,000 cycles
- Green/Red LEDs and audible indicators alert operator of proper clutch function at shut-off
- Charging station (purchased separately) provides quick recharge time



### Specifications

Model	ESB6-RA5F	ESB6-RA7	ESB6-RA12	ESB6-RA15	ESB6-RA15F	ESB6-RA8F	ESB6-RA30	ESB6-RA45	ESB6-RA60	
Input Voltage	18V									
Torque	Hard Joint	2-5 Nm 1.5-3.7 ft-lbs	2.5-7 Nm 1.8-5.2 ft-lbs	6-12 Nm 4.4-8.8 ft-lbs	8-15 Nm 5.9-11 ft-lbs	8-15 Nm 5.9-11 ft-lbs	3-8 Nm 2.2-6 ft-lbs	12-30 Nm 8.8-22.1 ft-lbs	15-45 Nm 11-33.1 ft-lbs	25-60 Nm 18.4-44.2 ft-lbs
	Soft Joint	2-4 Nm 1.5-3 ft-lbs	2.5-5.6 Nm 1.8-4.1 ft-lbs	6-9.6 Nm 4.4-7.1 ft-lbs	8-12 Nm 5.9-8.8 ft-lbs	8-12 Nm 5.9-8.8 ft-lbs	3-6.4 Nm 2.2-4.7 ft-lbs	12-24 Nm 8.8-17.7 ft-lbs	15-36 Nm 11-26.5 ft-lbs	25-48 Nm 18.4-35.4 ft-lbs
Repeatability	±5%									
Torque Adjustment	Internal Stepless									
Free Speed (RPM) ±10%	Hi	1200	850	550	350	850	1200	350	200	200
	Lo	800	550	350	220	550	800	220	130	130
Weight (w/o battery)	1.25 kg / 2.6 lbs			1.5 kg / 3.3 lbs	1.85 kg / 4.0 lbs		1.9 kg / 4.2 lbs		2.85 kg / 6.3 lbs	
Length (w/o battery)	400 mm / 15.7 in			415 mm / 16.3 in	440 mm / 17.3 in		450 mm / 17.7 in		530 mm / 20.9 in	
Applicable Battery	ESB-18VL3000B					ESB-18VL3000C			ESB-18VL3900	
Applicable Charger	ESB-CHG80/1950B									ESB-CHG80N
Drive Size	1/4" Hex			3/8" Sq   1/4" Hex			3/8" Sq		1/2" Sq	



# ESB8 INLINE BRUSHLESS SCREWDRIVERS

## Torque Range:

0.2–4.5 Nm (1.8–40 in-lbs)

## Features:

- Consistent torque output — Torque accuracy  $\pm 3\%$ \*
- Clean, brushless motor technology
- Dependable, long lifespan
- Two speed selections available
- Lever start, forward/reverse switch
- LEDs and audible indicators alert user to proper clutch activation at shut-off, low battery, and current speed setting
- To conserve battery power, screwdriver enters sleep mode when idle for more than 3 seconds
- Charging station (purchased separately) provides quick recharge time (~45 minutes)
- Includes torque lock sleeve (DR80-ESB823M for ESB823 Series & DR80-20233M for all other models), belt clip, suspension bail, and 2 driver bits (PH #1 + PH #2)

ESB823(F)



ESB828

ESB828/RA

\*Factory test values - actual torque results may vary depending on the specific application, operator input, and test equipment used.

Model	In-Line					Right Angle		
	ESB823	ESB823F-ESD	ESB824	ESB828	ESB829	ESB824/RA	ESB828/RA	ESB829/RA
Input Voltage	7.2V		10.8V			10.8V		
Torque Range	0.2–1.2 Nm		0.3–2.0	0.8–3.0	1.5–4.5	0.3–1.6	0.8–2.4	1.5–3.6
	1.8–10.6 in-lbs		2.7–18	7.1–27	13–40	2.7–14	7.1–21	13–32
Speed (rpm)	500 / 350	1000/700	1200 / 850		700 / 500	1200 / 850		700 / 500
Start Type	Lever					Lever		
Weight (w/o battery)	0.5kg (1.1lbs)		0.7kg (1.5lbs)			0.95kg (2.1lbs)		
Size (L x H w/o battery)	225 x 62 mm (8.8 x 2.4 in)		270 x 60 mm (10.6 x 2.4 in)			320 x 60 mm (12.6 x 2.4 in)		
Applicable Battery	ESB-7VL3000		ESB-10VL3000			ESB-10VL3000		
Applicable Charging Station	ESB-CHG25		ESB-CHG50N			ESB-CHG50N		
Applicable Bit Type	1/4" Hex					1/4" Hex		

\*ESD-safe housing available on all models— add suffix '-ESD'

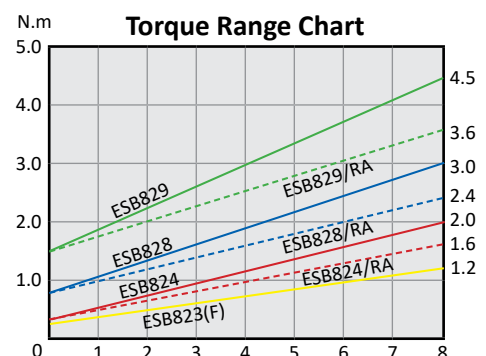


Compatible with  
DR90-10104  
Tool Balancer



### LED indicators

Top	OK Clutch
	NG Clutch
Bottom	Low Speed Mode
	Low Battery



# ESB8 INLINE BRUSHLESS SCREWDRIVERS

## Torque Range:

0.5–4.5 Nm (4.4–40 in-lbs)

## Features:

- Consistent torque output — Torque accuracy  $\pm 3\%$ \*
- Clean, brushless motor technology
- Dependable, long lifespan
- ESD Safe Housing helps protect sensitive electronics
- Push start with lever reverse switch. Ideal for applications requiring frequent and rapid changes from forward to reverse (i.e. Terminal blocks, Threaded insert, Helicoil, Rivnuts)
- LEDs and audible indicators alert user to proper clutch activation at shut-off, low battery, and current speed setting
- To conserve battery power, screwdriver enters sleep mode when idle for more than 3 seconds
- Charging station (purchased separately) provides quick recharge time (~45 minutes)
- Includes torque lock sleeve (DR80-20233M), belt clip, suspension bail, and 2 driver bits (PH #1 + PH #2)



\*Factory test values - actual torque results may vary depending on the specific application, operator input, and test equipment used.

		Inline Push Start (Lever Reverse)		
Model		ESB824P-ESD	ESB828P-ESD	ESB829P-ESD
Input Voltage		10.8V		
Torque Range	Nm	0.5–2.0	1.0–3.0	2.0–4.5
	in-lbs	4.4–18	8.8–27	17.7–40
Speed (rpm)		1200		700
Start Type		Push Start with Lever Reverse		
Weight (w/o battery)		0.72kg (1.6lbs)		
Size (L x H w/o battery)		290 x 62 mm (11.4-2.4 in)		
Applicable Battery		ESB-10VL3000		
Applicable Charging Station		ESB-CHG50N		
Applicable Bit Type		1/4" Hex		



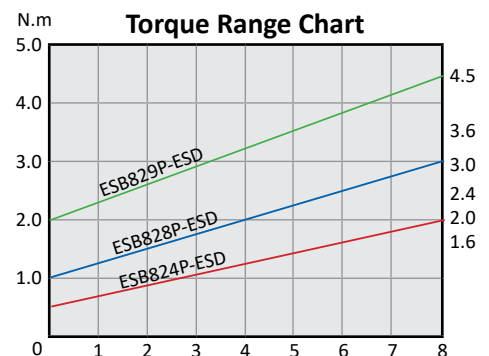
Compatible with  
DR90-10104  
Tool Balancer



### LED indicators

Top	OK Clutch
	NG Clutch
Bottom	Low Battery

### Torque Range Chart



# BSP8 PISTOL BRUSHLESS SCREWDRIVERS

## Torque Range:

0.5–4.5 Nm (4.4–40 in-lbs)

## Features:

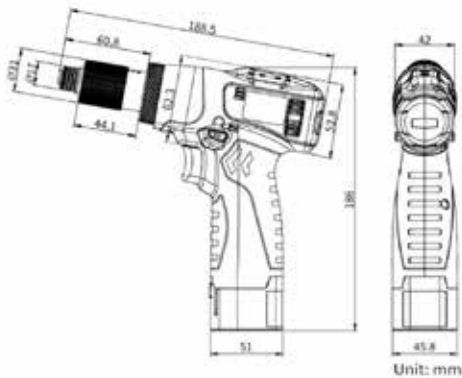
- Consistent torque output — Torque accuracy  $\pm 3\%$ \*
- Clean, brushless motor technology
- Dependable, long lifespan
- Two speed selections available
- Trigger start, forward/reverse switch
- LEDs and audible indicators alert user to proper clutch activation at shut-off, low battery, and current speed setting
- To conserve battery power, screwdriver enters sleep mode when idle for more than 3 seconds
- Charging station (purchased separately) provides quick recharge time (~45 minutes)
- Includes torque lock sleeve (DR80-20233M), belt clip, and 2 PH #2 driver bits

\*Factory test values - actual torque results may vary depending on the specific application, operator input, and test equipment used.



Specifications																												
Model	BSP824				BSP828				BSP829				BSP830															
Input Voltage	10.8V																											
Torque Range	Hard Joint	Nm	0.5-2.0	0.8-3.0	1.5-4.5	2.0-6.0	in-lbs	4.4-18	7.1-27	13-40	18-53	Speed (rpm) HI/LO	2700/1900				1400/1000				800/550				650/450			
		Nm	0.5-1.6	0.8-2.4	1.5-3.6	2.0-4.8		in-lbs	4.4-14	7.1-21	13-32		18-42															
	Soft Joint	Nm	0.5-1.6	0.8-2.4	1.5-3.6	2.0-4.8	in-lbs		4.4-14	7.1-21	13-32		18-42															
		Nm	0.5-1.6	0.8-2.4	1.5-3.6	2.0-4.8		in-lbs	4.4-14	7.1-21	13-32		18-42															
Start Type	Trigger																											
Weight (w/o battery)	0.7kg (1.5lbs)																											
Size (L x H w/o battery)	189 x 157 mm (7.4 x 6.2 in)																											
Applicable Battery	ESB-10VL3000																											
Applicable Charging Station	ESB-CHG50N																											
Applicable Bit Type	1/4" Hex																											

\*ESD-safe housing available on all models— add suffix '-ESD'



Unit: mm

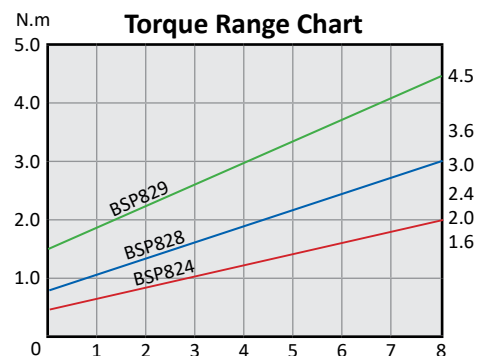


Compatible with  
DR80-TH8-9  
Tool Holster



### LED indicators

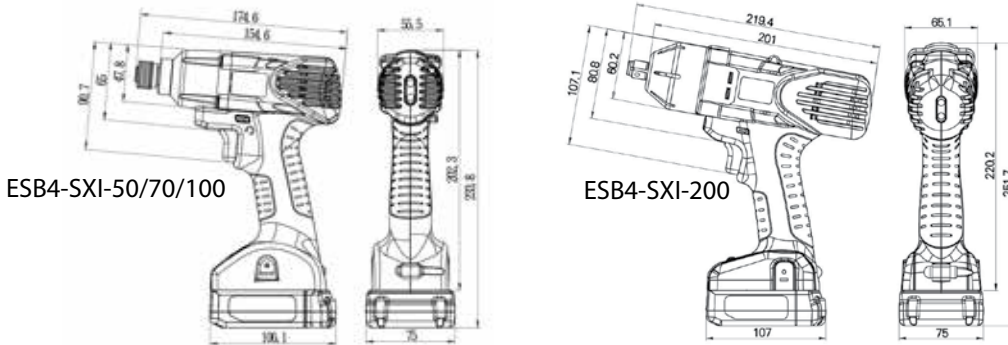
Bottom	OK Clutch
	NG Clutch
Top	Low Speed Mode
	Low Battery



# INDUSTRIAL AUTO SHUT-OFF IMPACT DRIVER

## Features

- With a maximum of 99 x 6 possible combinations the tool can be dialed in to your specific torque requirement.
- OK & NG indicators (Sound & Lights) provide instant feedback for cross threading and screw stripping errors
- Use up to 5 customizable program settings in sequence
- Programmable batch count function shows number of fasteners remaining in batch
- Programming is completed with DR-IRC1 remote control and has the capability to lock settings on the tool to avoid accidental or intentional tampering
- Reverse run (Counter-clockwise operation) function
- Ignore friction function helps to further increase repeatability when working with multiple joint types and material



## Specifications

Model	ESB4-SXI-50	ESB4-SXI-70	ESB4-SXI-100	ESB4-SXI-200
Input Voltage	14.4V			
Speed (RPM)	0~1900	0~2600	0~2000	0~1700
BPM	0~2500	0~3400	0~2600	0~2100
Torque Range	5~50 Nm (3.7~36.9 ftlb)	20~70 Nm (14.7~51.6 ftlb)	20~100 Nm (14.7~73.7 ftlb)	25~200 Nm (18.4~147.5 ftlb)
Recommended Fastener Size (Class 12.9)	M6 / M8 / M10 / M12	M8 / M10 / M12 / M14	M10 / M12 / M14 / M16	M12 / M14 / M16 / M20
Torque Range Capability (Based on fastener size)	M6 - 3~20Nm (2.2~14.7 ftlb)	M8 - 8~30Nm (5.9~22.1 ftlb)	M10 - 8~40Nm (5.9~29.5 ftlb)	M12 - 15~110Nm (11.0~81.1 ftlb)
	M8 - 3~20Nm (2.2~14.7 ftlb)	M10 - 8~40Nm (5.9~29.5 ftlb)	M12 - 20~70Nm (14.7~51.6 ftlb)	M14 - 25~120Nm (18.4~88.5 ftlb)
	M10 - 5~30Nm (3.7~22.1 ftlb)	M12 - 20~60Nm (14.7~44.2 ftlb)	M14 - 20~90Nm (14.7~66.3 ftlb)	M16 - 25~140Nm (18.4~103.2 ftlb)
	M12 - 12~50Nm (8.8~36.9 ftlb)	M14 - 25~70Nm (18.4~51.6 ftlb)	M16 - 28~100Nm (20.6~73.7ftlb)	M20 - 25~200Nm (18.4~147.5 ftlb)
Drive Type	1/4" Hex		3/8" Square **Available in 1/2" Square Special Order**	1/2" Square
	3/8" Square *Add suffix "-SQ"			
Weight (Less Battery)	0.98 kg (2.1 lbs)	1.0 kg (2.2 lbs)		1.5 kg (3.3 lbs)
Dimensions (Less Battery)	174x202mm (6.8x7.8")			219x220mm (8.6x8.7")
Battery	ESB-14VL3000			
Charger	ESB-CHG70			
Optional Accessories	DR-IRC1			

# LITHIUM ION BATTERIES & BATTERY CHARGERS

## ESB-7VL3000 & ESB-10VL3000 Battery

### Features:

- High-performance Li-ion technology
- Built-in protection prevents battery overcharge and over discharge, extending lifespan

Specifications		
Battery Model	ESB-7VL3000	ESB-10VL3000
Use with Tool Model	ESB823(F)	ESB8 Series, BSP8 Series
Voltage	7.2V	10.8V
Rating (mAh)	3000	3000
Dimensions (L x W x H)	51 x 44 x 70 mm 2 x 1.7 x 2.7 in	51 x 46 x 90 mm 2 x 1.8 x 3.5 in
Weight	119.3g / 0.3 lbs	194g / 0.4 lbs
Certification	CE, ETL	



## ESB-CHG25 & ESB-CHG50N Charging Station

### Features:

- Visual indicators show recharging status
- Audibly notifies user when battery is fully charged
- Full recharge ~40 minutes

Specifications		
Charger Model	ESB-CHG25	ESB-CHG50N
Charges Battery Model	ESB-7VL3000	ESB-10VL3000
Input	100-240V	90-240V
Output	8.4V, 3.0A	12.6V, 3.75A
Dimensions (L x W x H)	145 x 115 x 101 mm 5.7 x 4.5 x 3.9 in	145 x 115 x 93 mm 5.7 x 4.5 x 3.6 in
Weight	430g / 0.9 lbs	470g / 1.0 lbs
Certification	CE, ETL	





# LITHIUM ION BATTERIES & BATTERY CHARGERS

## Charge Stations: ESB-CHG70, ESB-CHG80, ESB-CHG80/1950B

## Rechargeable Batteries: ESB-18VL1950(B), ESB-18VL3000B/C, ESB-18VL3900



### Display Description

	Power on		Charged 100%
	Charging		Error
	Charged >80%		

### Lithium-Ion Batteries

High performance lithium-ion batteries allow the ESB6 Series Screwdrivers to perform a high quantity of fastening cycles between charges. In some instances, two battery sizes are available - a standard (1950 mAh) battery and an extended life (3900 mAh) battery.

Li-Ion Battery Model Number	Rating (mAh)	Use with tool models	Dim (mm)(in) L x W x H	Weight (g)(lbs)
ESB-14VL3000	3000	Refer to Screwdriver Model Chart	107 x 75 x 43(mm) 4.2 x 2.9 x 1.7(in)	320g/0.7lbs
ESB-18VL3000B/C	3000		92 x 75 x 70(mm) 3.6 x 3.0 x 2.4(in)	430g/1lbs
ESB-18VL1950	1950		119 x 90 x 40(mm) 4.7 x 3.5 x 1.6(in)	430g/1lbs
ESB-18VL3900	3900		119 x 90 x 59(mm) 4.7 x 3.5 x 1.6(in)	720g/1.6 lbs

### Battery Chargers

The ESB-CHG Battery Chargers quickly recharge the cordless screwdriver's batteries so that they are ready when needed. The charger is capable of bringing a standard battery to an 80% charge level in about 25 minutes.

#### Features include:

- Battery identification to help protect against charging the wrong brand/type of battery.
- Over-temperature protection, output over-voltage protection.
- Audible and visual indication when battery reaches full charge.
- ETL / CE Compliant.

#### Indicator lights provide visual indication of:

- Power On
- Battery Charging
- Charge exceeds 80%
- Fully Charged
- Charging Error



Approximate Battery Charge Times

Battery Model/ Capacity	ESB-CHG120	ESB-CHG70	ESB-CHG80	ESB-CHG80/1950B
ESB-14VL3000 (3000mAh)	-	40 min	-	-
ESB-18VL1950 (1950mAh)	40 min.	-	40 min.	-
ESB-18VL3900 (3900mAh)	60 min.	-	80 min.	-
ESB-18VL3000B/C (3000mAh)	-	-	-	40 min.

Battery Charger	Input	Output	Use to charge battery model	Dim (mm)(in) L x W x H	Weight (g)(lbs)
ESB-CHG80/1950B (1820B only)	90-240 VAC 50/60 Hz	21VDC, 3.2A	ESB-18VL3000B/C	145 x 115 x 75(mm) 5.7 x 4.5 x 2.9(in)	460g/1.0lbs
ESB-CHG70 (standard charger)		16.8V, 3.2A	ESB-14VL3000	107 x 75 x 43(mm) 4.2 x 2.9 x 1.7(in)	530g/1.2lbs
ESB-CHG80 (standard charger)		21VDC, 3.2A	ESB-18VL1950/ESB-18VL3900	115 x 145 x 80(mm) 4.5 x 5.7 x 3.1(in)	530/1.2lbs

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