

DigiTrak® F Series™

Battery Charging System



Battery Charging System. as Sold with Complete F Series Locating Systems

The DigiTrak® F Series™ Battery Charging System has been redesigned so it will restore most F series battery packs that have been discharged to a voltage level where no LEDs are visible. In addition, the F Series battery charger (FBC™) will better monitor battery temperature during charging, thereby improving charging performance. This improved charger will also charge both types of DCI battery packs used in our current locating systems: the F Series lithium-ion battery pack (FBP™) and the SE® NiMH battery pack (SBP™).

Both types of battery packs will work with the SE, F2®, F5®, and Falcon™ receivers and with SED™, FCD, and FSD™ remote displays.

- Revives very low voltage F Series battery packs
- Senses battery temperature for improved charging performance
- Charges SE NiMH battery packs
- Black and white housing distinguishes enhanced version from earlier F Series charger design

When sold separately, the FBC system includes the SBC charger, AC and DC power cords, and an AC adapter. The battery charger can operate from both AC (100–240 V, 50–60 Hz, 1.5 A max) and DC (10–28 V, 5 A max) power sources. The AC power cord provided with your system is standard to your region. Batteries are sold separately.

DigiTRAK® F Series Battery Charging System

Battery Charger Status Indicators

The battery charger has three LEDs (red, orange, and green) that are on, off, or flashing, depending on the charging status. The table below describes the charger or battery pack status indicated by the various LED signals.

LEDs Signals	Charger or Battery Pack Status	Action
Flashing Orange	No battery pack or unknown battery type detected.	Insert FBP or SBP battery pack.
Solid Green and Solid Orange	Slow Charge / Voltage Restoration FBP voltage is less than 11.0 V or temperature is above 104° F. SBP voltage is less than 9.6 V or temperature is below 32° F.	None. Charger will slowly restore battery pack to full voltage.
Solid Orange and Solid Red	Fast charge (normal); charge duration approximately 4 hours.	None
Alternately Flashing Green and Orange	FBP or SBP charged to 100% capacity, or SBP on Trickle Charge.	Remove fully charged battery pack.

Battery Operating Times for Various System Components

A battery pack can be recharged about 400 times before its life is reduced substantially.

System Component	FBP	SBP
Falcon F5/F5 receiver	10 hrs	5 hrs
Falcon F2/F2/F1 receiver	12 hrs	6 hrs
SE receiver	12 hrs	6 hrs
FSD remote display	14 hrs	7 hrs
SED/FCD remote display	24 hrs	12 hrs

Specifications

Part Number.....	FBC
Power Input Rating	10–28 VDC, 5 A max
Power Output Rating.....	19.2 VDC, 1.8 A max
Operating Temperature	
FBC.....	32 to 95° F
FBP.....	-4 to 140° F
SBP.....	14 to 149° F
Weight	
FBP.....	1.10 lb.
SBP.....	1.05 lb.
FBC without battery pack.....	0.80 lb.
Dimensions (FBC).....	2.6 x 7.3 x 4.0 in.
Dimensions (FBP/SBP).....	2.1 x 4.1 x 3.0 in.

DCI: THE BUSINESS OF HDD LOCATING