



# External Charger Quick Start Guide

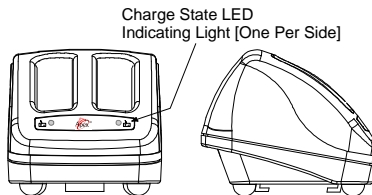
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## Safety

- ❑ DO NOT operate the Apex III External Charger in any location which could result in the unit getting splashed, wet, or immersed in liquid.
- ❑ DO NOT tamper or operate the Apex III External Charger if the case is perforated, broken, or loosely held together.
- ❑ DO NOT operate the Apex III External Charger in any outside location where it could become exposed to the elements. *The Apex III External Charger has been designed for indoor use only.*
- ❑ DO NOT attempt to charge any other type battery pack or batteries other than Apex III Battery Packs with your Apex III Dock or Apex III External Charger.
- ❑ ONLY use Compsee, Inc. approved cables and Power Supplies with your Apex III products.
- ❑ DO NOT touch more than one Battery Pack terminal at a time with any electrically conductive material. A short across the Battery Pack terminals could result in the sudden release of a large portion of the Battery Pack's energy.

## Unpacking And Initial Setup

1. Remove the Apex III External Charger from the packing carton and inspect the unit to ensure it is good physical condition after shipping.



**Figure 1: Apex III External Charger**

2. If you have ordered an External Charger Kit (Kit 1 or 2 – refer to the Support Section of the External Charger User's manual for part numbers and description), remove the associated Power Supply and AC Line cable (if applicable) from the packing container (refer to Figure 2 and Figure 3).

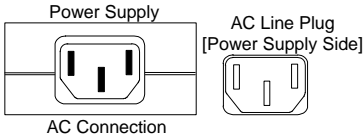


**Figure 2: External Charger Power Supply**



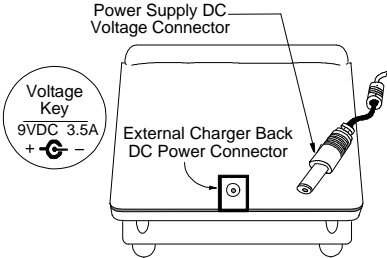
**Figure 3: AC Line Cord (120 VAC Cord Shown)**

- 3. Record the Unit Specific Information (External Charger and Power Supply Model and Serial numbers) in a location you will remember for future reference before permanently installing your Apex III External Charger.
- 4. Plug the female end of your AC Line cord into the Power supply connector (refer to Figure 4).



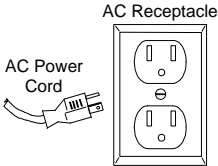
**Figure 4: Power Supply AC Power Connection**

- 5. Plug the round male Power Supply DC voltage connector (cable permanently attached to Power Supply) into the DC voltage connector on the back of the Apex III External Charger (refer to Figure 5).



**Figure 5: Apex III External Charger (Rear View)**

- 6. Plug the AC Line cord into an AC power receptacle (refer to Figure 6).



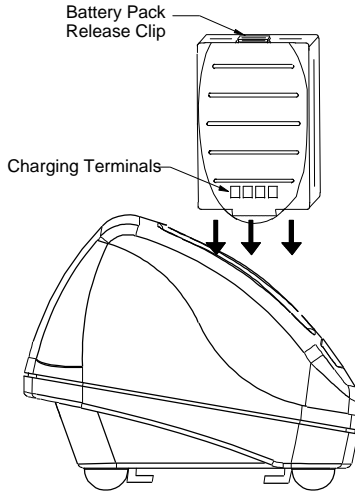
**Figure 6: AC Power Connection**

- 7. Insert one or two Apex III Battery Pack(s) into the charging slot(s) on the top of the Apex III External Charger (refer to Figure 7 and accompanying Note).

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**Note:** Battery Pack must be placed in the charging slot with Release Clip facing upwards and the four side charging terminals (and ridges) facing outward towards the side of the unit. This orientation applies to the insertion of both Battery Packs (one Battery Pack will be turned the opposite of the other).



**Figure 7: Battery Pack Orientation**

### **External Charger Operation**

**Note:** The Apex III External Charger is equipped with a quick charge circuit allowing an Apex III Battery Pack to be fully charged from a full discharge condition within 2 hours.

### **Battery Pack Charging**

1. To charge an exhausted Apex III Battery Pack, place the Battery Pack into the External Charger charging slot as described in the Unpacking And Initial Setup section.
2. Once an Apex III Battery Pack has been inserted into the External Charger charging slot per the previous instructions, the charging process will commence immediately and be controlled automatically by the unit. No additional action is required by the user, except for Battery Pack removal once the Battery Pack has been fully charged.
3. Upon initial insertion of a Battery Pack into the unit, the respective side LED indicator light on the front of the unit will flash Red. After a short period of time (no longer than 15 minutes) the LED will solidly illuminate Red to indicate that the Battery Pack is being charged in the *fast mode*.
4. When the Apex III External Charger senses that the Battery Pack charge state has reached approximately 92% charge, the respective side LED indicator light on the front of the unit will change to solid Green informing the user that the unit is charging the Battery Pack in the *trickle mode*. The trickle charging mode will continue until the Battery Pack is removed from the charging slot.

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**Note:** Apex III Battery Packs use Nickel Metal Hydride (NiMH) composition, they DO NOT succumb to memory (hysteresis) loss as do Nickel Cadmium (Ni-Cd) batteries. *Apex III Battery Packs can therefore be charged while in any state-of-charge and DO NOT require full discharge prior to charging; however, it is still recommended that the Battery Pack be fully discharged periodically to reset the internal gas gauge circuitry.*

5. If your Apex III Portable Data Collection Terminal (PDT) is ready for another Battery Pack, simply remove the installed Battery Pack and replace it with a fully charged Battery Pack from the External Charger (refer to the Apex III PDT/Battery Pack Notes below).

### Apex III PDT/Battery Pack Notes

1. DO NOT attempt to operate the Apex III PDT once it has powered down due to a low battery condition. When the battery pack is exhausted, leave the exhausted Battery Pack in the Apex III until you can either charge it in place by placing the Apex III in the Apex III Dock, or swap the Battery Pack with a charged Battery Pack. Information in volatile memory (RAM) will be preserved since the Apex III PDT is configured so that even with an exhausted Battery Pack enough energy is retained to maintain the information for an extended period of time. DO NOT leave the unit WITHOUT a Battery Pack for more than 5 minutes.
2. It is recommended that the user place the Apex III PDT in “Suspend” and change to a fully charged Battery Pack or recharge the installed Battery Pack after receiving the “Change Battery” message. After charging the Battery Pack, pressing the “Suspend” button again will restore the unit to the last operation performed. If unit operation is continued and the “Battery Critical” alarm occurs the unit will shutdown and cannot be restarted. The installed Battery Pack must be replaced with a fully charged Battery Pack or the installed pack recharged in the Apex III Dock.

### Battery Pack Life

Average Battery Pack life expectancy is 400 charge cycles, where a charge cycle encompasses the period of use to full depletion then full charge. After the 400 cycle period, the Battery Pack capacity remaining will be approximately 80%.

- Avoid interruptions in usage by always keeping a spare Battery Pack on hand.
- Alternate spare Battery Pack use so that all Battery Packs receive uniform use.
- Battery Packs can lose approximately 1.1% of their charge per day sitting on the shelf. Therefore a fully charged Battery Pack not kept in the charging slot will require recharging in less than 100 days.



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