

# Stick Reader Battery Pack Fast Charger Model AK320



## General Description

The Allflex Stick Reader Battery Pack Fast Charger is an accessory item intended for use with the Allflex Model RS320 Stick Reader. The AK320 Fast Charger provides the capability to charge up to three (3) Stick Reader battery packs simultaneously in approximately 2 hours. At the end of the fast charge cycle, the charger reverts to a low current trickle charge that holds the charge level until the battery pack is removed for use.

Each of the three battery pack charging slots operates independently, and each has a corresponding red indicator light that provides charging status. The AK320 is powered

from any AC voltage source ranging from 100 to 240 VAC and 50/60 Hz. The wall-mount power adapter provided with the AK320 is available with interchangeable AC socket plugs for international AC power mains compatibility. Additional battery packs (Allflex Model No. PW320) can be ordered separately.



## Operation and Use

The AK320 Fast Charger is intended for table-top use in an indoor environment. The Fast Charger is not environmentally protected, and moisture and foreign substances can penetrate the enclosure and damage circuitry causing the device to fail. Furthermore, effective fast charging must be conducted in a temperature environment between 15 °C and 30 °C (59 °F and 86 °F) in order for the battery pack to accept a full charge. Failure to use the Fast Charger and battery packs in this prescribed manner may result in premature failure of these devices.

## Battery Pack Charging Procedure:

1. Select the compatible AC power plug and insert it into the wall-mount charger receptacle slot.
2. Place the Fast Charger on a level surface and plug the wall-mount charger power cord into the power jack located on the end panel of the Fast Charger.
3. All three red indicator lights should be illuminated and on steady at this point. If not, check the AC power source and ensure the power cord is firmly seated in the Fast Charger.
4. Orient the battery pack with the marking arrow facing the red indicator light and pointing downward and insert the battery to be charged into any of the three charging slots, ensuring it is seated all way against the spring contacts located at the bottom of the charging slot. Observe the polarizing rib on the battery pack that determines correct orientation into the charging slot.
5. If the battery pack has been installed correctly, the red indicator light will commence flashing approximately 1/second. (Note: If a battery pack is severely depleted, the red indicator light may remain on steadily for several minutes. If the red indicator does not begin flashing within 3 minutes, check to ensure the battery pack is correctly and completely inserted.)
6. When the battery pack is fully charged, the red indicator light will cease flashing and will remain on steadily.
7. To ensure maximum battery life, battery packs should be cycled completely between discharge and charge state. Charging must be conducted within the specified thermal limits, and should not be left in the charger for extended periods of time. Once charged, the battery pack should not remain in the charger for more than one day.

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### SPECIFICATIONS

<b>GENERAL</b>	
	AK320 Stick Reader Battery Pack Fast Charger
Compatibility:	Use with Allflex Stick Reader Model RS-320 series Battery Packs (PW320)
Form Factor:	Extruded Aluminum Enclosure
User Interface:	3 Charging Slots with 3 Red Charging Indicator Lights
Battery Pack Specification:	9.6 VDC / 750 mAh Nickel Metal Hydride (NiMH) (8 x AAA cells)
Charger/Adapter:	Input: 100 to 240 VAC 50/60 Hz Wall Mount with 4 interchangeable AC power plugs (North America, Europe, U.K., and Australia/NZ) Output: 18 VDC Output @ 1100 mA Power Cord: 1 meter long with 2.1mm x 5.5mm coaxial plug (center pin positive)
Agency Certifications:	Charger/Adapter is UL and CE listed

### PHYSICAL/ENVIRONMENTAL

Dimensions:	115mm x 70mm x 43mm (4.5" x 2.75" x 1.7")
Weight:	0.28 kg (10 oz.)
Material:	Extruded Aluminum (2.5mm / 0.1" thick)
Color:	Black Powder Coat
Operate Temperature	+15°C to +30°C
Storage Temperature	-10°C to +45°C
Charging Temperature	+15°C to +30°C
Humidity:	0 to 95% (no condensation)
Altitude:	-100 to +3,000 meters
Mechanical Shock:	Per IEC 68-2-27
Vibration:	Per IEC 68-2-6
Hermeticity:	None (IP10)

### RELIABILITY

MTBF:	50,000 hours
MTTR:	0.5 hours
Expected Life:	5 years (not including battery)

### PERFORMANCE

Charging Time:	~2 hour fast charge with trickle charge thereafter
Charging Sense:	- V/ t slope detection with backup timeout
Charging Indicator:	Flashing red indicator for fast charge / steady on for trickle charge

