

# Stick Reader Battery Pack Fast Charger

## Model No. AK420

### Operating Instructions



#### General Description

The Allflex Stick Reader Battery Pack Fast Charger is an accessory item intended for use with the Allflex Model RS420 Stick Reader. The AK420 Fast Charger provides the capability to charge up to two (2) stick reader battery packs simultaneously in approximately 3 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 two battery pack charging slots operates independently, and each has a corresponding bicolor indicator light that provides charging status. The AK420 is powered from any AC voltage source ranging from 100 to 240 VAC and 50/60 Hz.



#### Operation and Use

The AK420 Fast Charger is intended for table-top use in an indoor environment. The Fast Charger is not environmentally protected; moisture and foreign substances can penetrate the enclosure, damage circuitry, and cause the device to fail. Furthermore, effective fast charging must be conducted in a temperature environment between 5°C and 40°C (41°F and 104°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:

- a) Connect the charger plug to an AC power source with an IEC cable (option).
- b) Place the Fast Charger on a level surface and plug the charger power cord into the power jack located on the end panel of the Fast Charger.
- c) Indicator lights should be steady off at this point.
- d) Insert the battery to be charged into any of the 2 charging slots. Observe the polarizing rib on the battery pack that determines correct orientation into the charging slot.
- e) If the battery pack has been installed correctly, the indicator light will be blinking green, indicating fast charge has started.
- f) When the battery pack is fully charged, the green indicator light will be steady on.
- g) To ensure maximum battery life, charging must be conducted with the specified thermal limits, and the battery 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.



If the charging is conducted out of specified thermal limits, the red indicator lights may be steady on or blink.



If the AK420 operates in the specified thermal limits and the red indicator steady on or flashing after 3 minutes, the AK420 indicates a damaged battery. **Stop the charger and remove the battery.**

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#### Specifications

<b>GENERAL</b>		<b>AK420 Stick Reader Battery Pack Fast Charger</b>	
Compatibility:	Use with Allflex Stick Reader Model RS420 series Battery Packs (PW420)		
User Interface:	2 Charging slots with Charging Indicator lights		
Battery Pack Specification:	7.4 VDC / 2600mAh (Li-Ion) Rechargeable		
Charger Adapter:	Input 100 to 240VAC 50/60Hz Output: 18VDC Output @ 3000mA Power Cord: 1.8 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:	0.39kg ( 13.8oz)
Material:	ABS-PC UL94 V-0 plastic
Color:	Black ABS-PC
Operate Temperature:	+5°C to +40°C (41°F to 104°F)
Charging Temperature:	+5°C to +40°C (41°F to 104°F)
Storage Temperature:	-10°C to +45°C (14°F to 113°F)
Humidity:	10 to 90% (no condensation)
Altitude:	-100 to +3,000 meters
Mechanical Shock:	Per IEC 68-2-27
Vibration:	Per IEC 68-2-6
Hermeticity:	None ( IP10)

#### **PERFORMANCE**

Charging Time:	~3 Hour fast charge with trickle charge thereafter
Charging Indicator	Blinking green indicator for fast charge / Steady on for complete charge / on red indicator for battery fault

#### Ordering Information

ALLFLEX Model No.: AK420 Battery Pack Fast Charger

#### **Allflex USA, Inc.**

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