



michael smith
engineers ltd

The UK's Leading Pump Specialist

FREEPHONE
0800 316 7891

FINISH THOMPSON INC.



Introducing the S6 Series
12-Volt Lithium Ion Drum Pump Motor



12-Volt Lithium Ion Drum Pump Motor

web : www.michael-smith-engineers.co.uk

email : info@michael-smith-engineers.co.uk

The ultimate in portability & convenience.

The cordless design makes it easy to transfer fluids virtually anywhere, no electric outlet needed.



Feature Overview

- 12-volt, 3,200 mAh lithium ion battery for maximum performance
- Cordless design for the ultimate in portability - lightweight yet powerful
- Two speed permanent magnet motor for precise fluid dispensing
- Dual cooling fans for long battery life
- Electronically controlled motor with overload protection



Feature Overview

- Integrated charging port with spring loaded rubber seal
- CE marked, RoHS compliant, IP24
- 2-hour charger available in 115/230 AC or 12-volt DC for truck/car charging ports
- Available molded wall hanger stores charger internally
- Fits all EF Series pump tubes



Lithium Ion Battery Pack

- Lithium ion batteries have much higher energy density compared to nickel cadmium (NiCd) or nickel metal hydride (NiMH).
- Lithium ion batteries have no “memory” effect. This allows the battery to be recharged at any state of discharge.
- Lithium ion batteries contain no toxic cadmium.





Lithium Ion Battery Pack

- The lithium ion power pack provides full, fade free power until the battery is exhausted.
- Unlike other battery technologies, lithium ion batteries do not cause the motor to slow down as the charge is depleted.



Lithium Ion Battery Pack

- Lithium-ion batteries are good at holding a charge. A lithium-ion battery pack loses only about 5% of its charge per month when not in use. (Compared to 20% loss per month for NiMH batteries)
- For best results, it is recommended that the motor be charged and used at least every three months.



Lithium Ion Battery Pack

Battery pack is rated 12-volts with 3,200 mAh capacity.

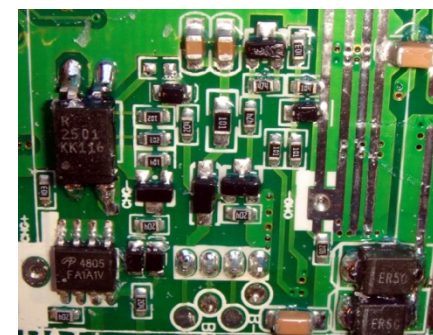
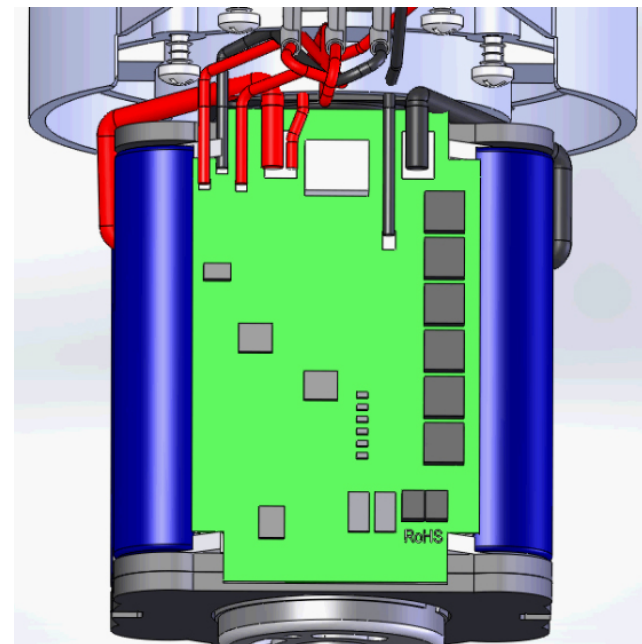
- Maximum initial voltage is 12-volts.
- Under workload nominal voltage is 10.8-volts.

12-volts and 3200 milliamp hours of power make the S6 as capable as a corded product.



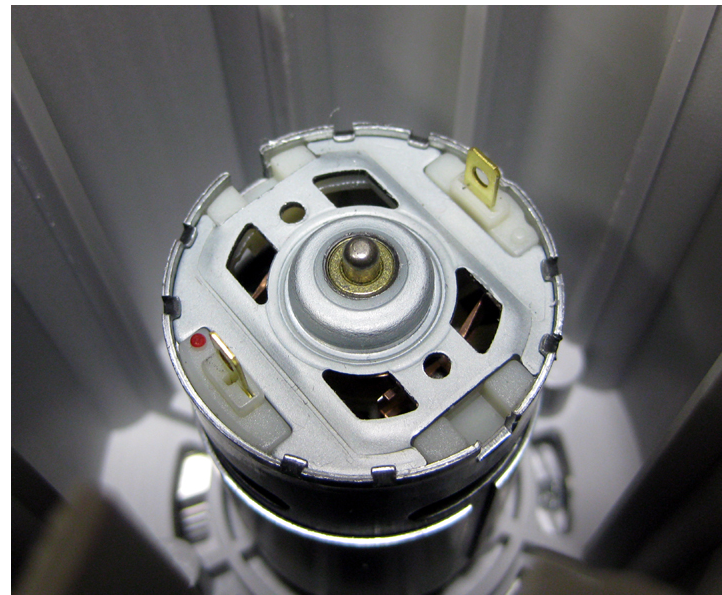
Electronic Charge

- Battery pack and motor are controlled by a solid state circuit board
- Prevents damage to the battery pack/motor during operation and charging
- Provides overload protection
- Prevents motor from operating during the charging cycle
- Board has a plastic coating to help protect it from damage in corrosive environments



DC Motor

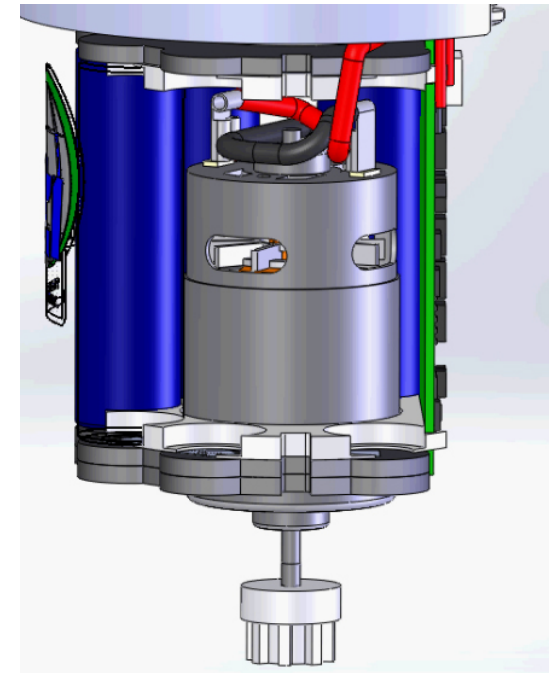
- Permanent magnet type DC motor
- Input power = 150 watts
- Output power = 100 Watts
- Two speeds – 8,000 rpm and 12,000 rpm
- Approximately 200 hour brush life
- Open design and carbon brushes make the motor **NOT** suitable for use in hazardous areas or for pumping flammable or combustibile liquid





Dual Cooling Fans

- Dual cooling fans help keep the battery pack cool
- This improves the performance and life of battery pack
- One fan is located in the top of the motor canister lid
- One fan is inside the DC motor



Charging Port

- Charging port is located in the side of the motor
- Port is protected by spring loaded rubber seal
- FTI supplied charger cord plugs into the jack
- Only use FTI chargers or damage can occur
- Motor will not operate while connected to the charger



AC Charger Option

- Input = 100-240 volts; 50/60 Hz
- Output = 12.6 volts; 1.8 amps
- Red/green LED status indicators
- Double insulated
- Available in 115 volt (shown) or 230 volt with Euro style plug
- Charges motor in less than two hours
- Can be used separately or stores inside molded wall hanger bracket
- cULus & CE marked



DC Charger Option

- Plugs into automobile or truck DC charging port (cigarette lighter type)
- Input = 12 volts DC
- Output = 12.6 volts; 2 amps
- Red/green LED status indicators
- Double insulated
- Charges motor in less than two hours
- CE marked



Molded Wall Hanger

- Durable, corrosion resistant nylon
- Stores charger internally
- Molded clips securely hold any EF Series pump tube
- Four holes in hanger for secure wall mounting
- Available separately for all EF Series



Performance

Maximum Flow

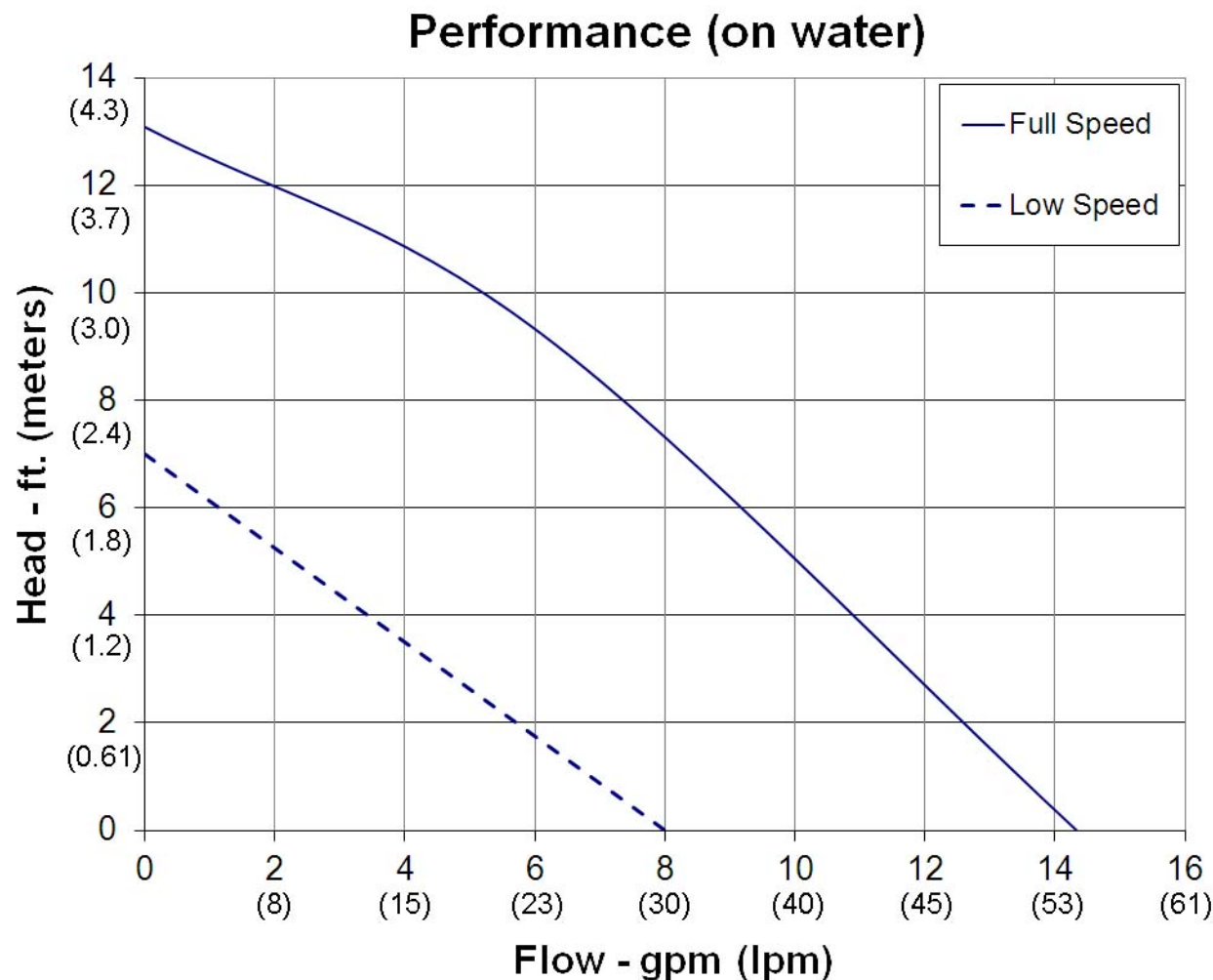
High Speed = 14 gpm
(53 lpm)

Low Speed = 8 gpm
(30 lpm)

Maximum Head

High Speed = 13 ft.
(4 m)

Low Speed = 7 ft.
(2.1 m)



Performance

Maximum Viscosity

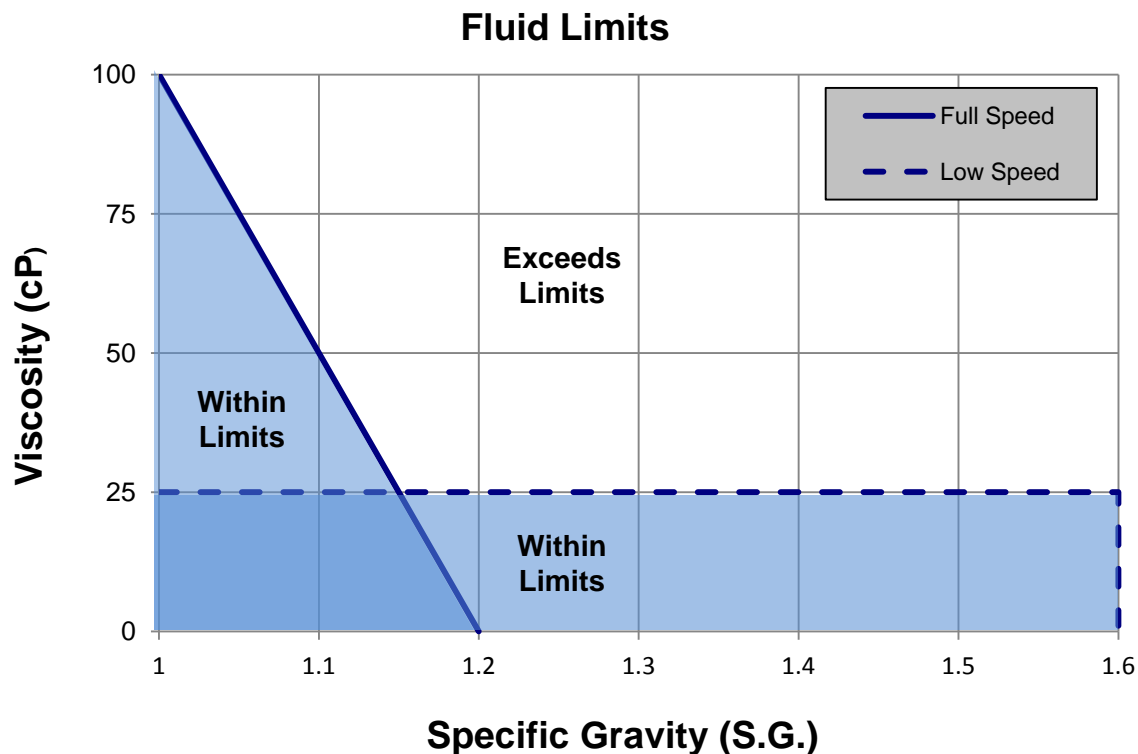
High Speed = 100 cP

Low Speed = 25 cP

Maximum Specific Gravity

High Speed = <1.2

Low Speed = 1.6



Performance

Maximum Run Time

High Speed = 20 minutes

Low Speed = 50 minutes



Maximum Volume per Charge

High Speed = 275 gallons (1,040 liters)

Low Speed = 450 gallons (1,703 liters)

Note: Increased head, specific gravity and viscosity will decrease run time by up to approximately 20%.



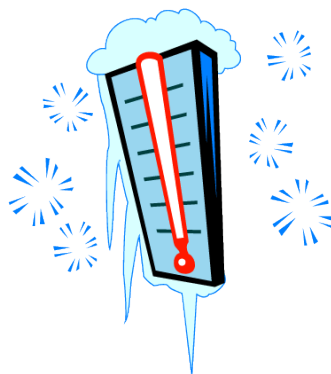
Customer Use

- Customer should fully charge the motor before first use.
- For best results, the customer should charge and use the motor at least every three months.
- Lithium Ion battery packs do not slow down as the pack becomes depleted they will simply stop pumping suddenly. This is normal. Battery will need to be recharged.



Temperature Limits

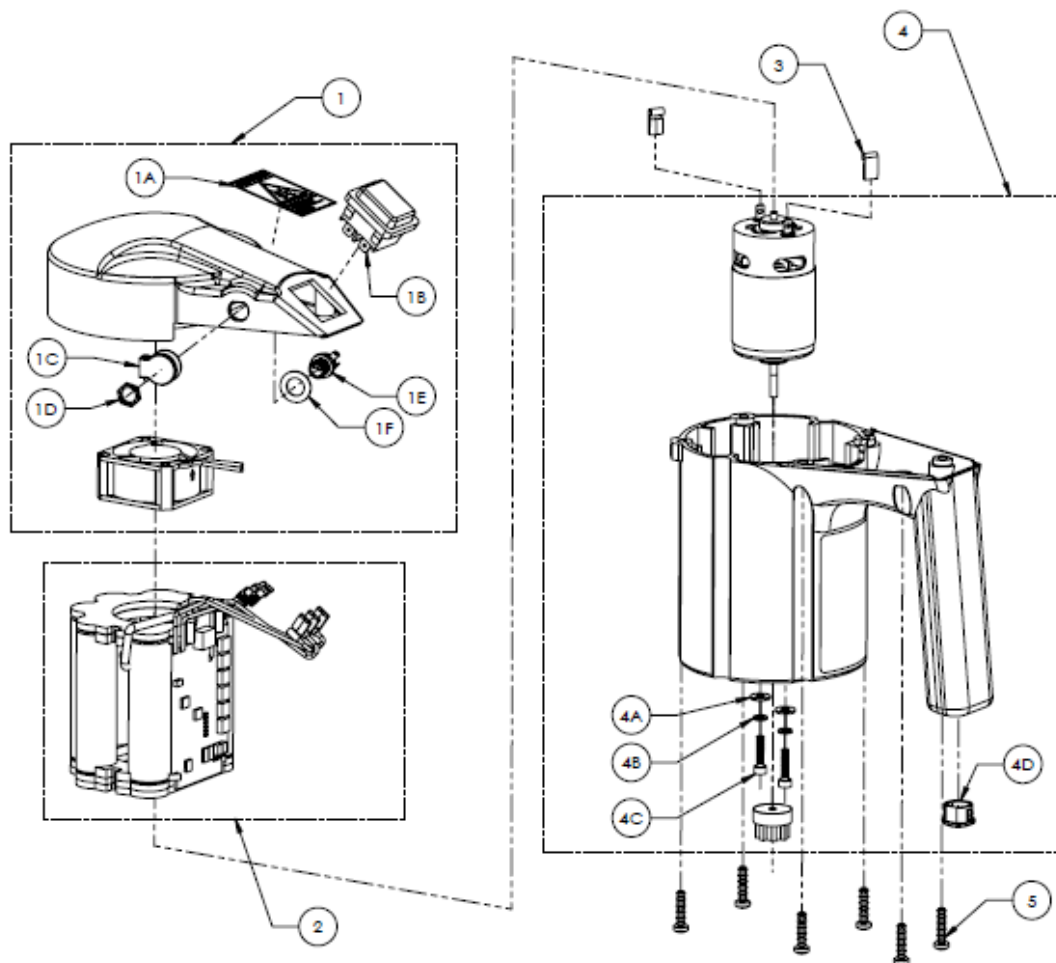
- Recommended ambient temperature range for *operating* the motor is 40° F (4.5° C) to 105° F (40.5° C).
- Operating the motor *below 40° F (4.5° C) will result in reduced battery capacity.*
- Longest life and best performance is obtained if the motor is *charged* when the temperature is between 65° F (18° C) and 75° F (24° C).



Repair Parts

Repair parts are available including:

- Jack cover
- Charging port
- On/Off switch
- Battery pack
- DC motor kit



How to Purchase

Bundle

Includes:

- S6 motor
- Charger (115, 230 or 12 volt)
- Wall hanger



Offered at special price, best value

How to Purchase

Kits

Includes

- Pump tube
- S6 motor
- Charger (115, 230 or 12 volt)
- Wall hanger
- Hose and clamp



How to Purchase

Items Individually

- All items are available separately
- FTI charger is required though it can be shared by multiple motors
- Wall hanger can be used for any EF Series tube/motor combination



Finish Thompson's S6



The ultimate in portability and convenience.