



# USER MANUAL

## RECHARGEABLE 29V BATTERY PACK

### SPS 2A29VDC BBFM

## OPERATING INSTRUCTIONS

1. Be sure the battery is fully charged before use. To confirm this, press the Test button on the side of the unit. If the indicator light is green then the battery is ready to use. If the indicator light is red, plug it into an outlet to charge.
2. To install, connect the cord with the female connector to the male 2-pin plug hard wired to the recline motor. Be sure to position the battery pack in a location where the cord will not be damaged in the recline mechanism.
3. Press the test button on the side of the battery pack to check the status of the battery while in use. If the battery has enough power to properly operate the furniture the test button will activate a GREEN LED. When the battery drops to 20% capacity, the test button will activate a RED LED. When this occurs, plug the battery pack into a standard wall outlet to recharge.
4. During the charging process a LED light will constantly indicate the current status of the battery pack. A RED LED indicates the charging process is not complete. A GREEN LED indicates the battery is fully charged.

*\*You have the option of using the battery while it is charging but this will require a much longer charging time before the battery is fully charged.*

*\*\*Do not completely drain the battery as this may reduce the life of the battery.*

*\*\*\*Once the battery is fully charged, unplug it from the wall outlet. Leaving the battery plugged into a wall outlet while fully charged will cause the battery to drain more quickly during use.*

### Notes:

1. Do not dispose of electrical appliance as unsorted municipal waste, use proper collection facilities.
2. Contact your local government for information regarding the collection system available.
3. Use only a power supply cord, Type SPT-1, 22awg, two conductors, rated minimum 105°C, 300V, VW-1. One end terminates in an attachment AC plug of 15A, 125V (NEMA 1-15P) or 15A, 250V (NEMA 2-15P), the other end terminates in a molded on connector which mates with the Power appliance inlet. Minimum 2.3m in length.

## TROUBLESHOOTING GUIDE

PROBLEM: NO POWER OUTPUT FROM BATTERY PACK	BATTERY NOT HOLDING A CHARGE	LED INDICATOR LIGHT DOES NOT LIGHT UP WHEN PLUGGED INTO WALL OUTLET
Check the connection between the battery pack and the recline motor and check Battery status by pressing the Test button on side of unit.	The number of recline cycles the battery can execute depends on the size of the occupant and the number of accessories connected to the system such as LED lighting or USB chargers	Confirm the AC cord is properly connected tot he wall outlet and battery pack.
NO LED ON: plug the battery pack into an outlet to recharge. Wait 30 seconds and the RED LED will illuminate indicating it is charging.	Allow 5 hours to fully charge the battery pack. It may be beneficial to disconnect the battery pack from the furniture during the charging process.	Confirm outlet used for charging is working properly.
RED LED: this indicates the battery needs to be charged.	A fully charged battery pack should provide over 200 uses, dependent on the load and accessories. The battery pack will discharge when idle.	Verify circuit breakers in the house are not tripped.
GREEN LED: indicates battery is fully charged and ready for use.	If the battery pack does not hold a charge as indicated then contact customer service at (888) 987-1011 or customerservice@raffel.com	If the battery pack does not recharge as indicated then contact customer service at (888) 987-1011 or customerservice@raffel.com

## **WARNINGS**

1. Keep away from flammable material and heat sources.
2. For indoor use only.
3. Dry location only.
4. Do not short circuit the battery, over charge or over discharge.
5. Do not allow the battery pack to become crushed.
6. Do not drop the battery into water.
7. Do not reverse the polarity.
8. Do not disassemble or repair the battery.
9. Do not install near metallic parts that could cause a short circuit.
10. Do not deform the battery housing.
11. Do not touch a leaky battery.
12. Do not use this battery with other devices it is not intended for.
13. Keep out of the reach of children.

## **ONE YEAR LIMITED WARRANTY**

Raffel systems warrants its products against all defects in materials and workmanship for a period of one year from the date of purchase, subject to the following terms and conditions.

This warranty applies only for normal use of the product, and shall not be effective for products or parts which do not function properly due to misuse, alteration, improper installation, accident, negligence, misapplication, modification, improper maintenance or commercial use, or if any product or part has been serviced or repaired by other than Raffel Systems.

This warranty is effective only if the product is operated in the country which the product was purchased. A product that requires modifications or adoption to enable it to operate in any other country than the country for which it was designed, manufactured, approved and/or authorized, or repair of products damaged by these modifications is not covered under this warranty.

Liability of Raffel Systems shall be limited to the repair or replacement of any defective product or part, which option shall be the sole decision of Raffel Systems. This warranty is effective only on behalf of the original owner of the product and is not transferable. This warranty is effective only if the user manual instructions have been followed.

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To obtain warranty service on this product, contact Raffel Systems or mail the product and your dated receipt (as proof of purchase), postpaid, to the following address:

**Raffel Systems Consumer Relations**  
N112W14600 Mequon Road  
Germantown WI 53022  
Phone: (888) 987-1011  
No COD's will be accepted.