

USER MANUAL **SOLAR POWERED**
WELDING HELMET

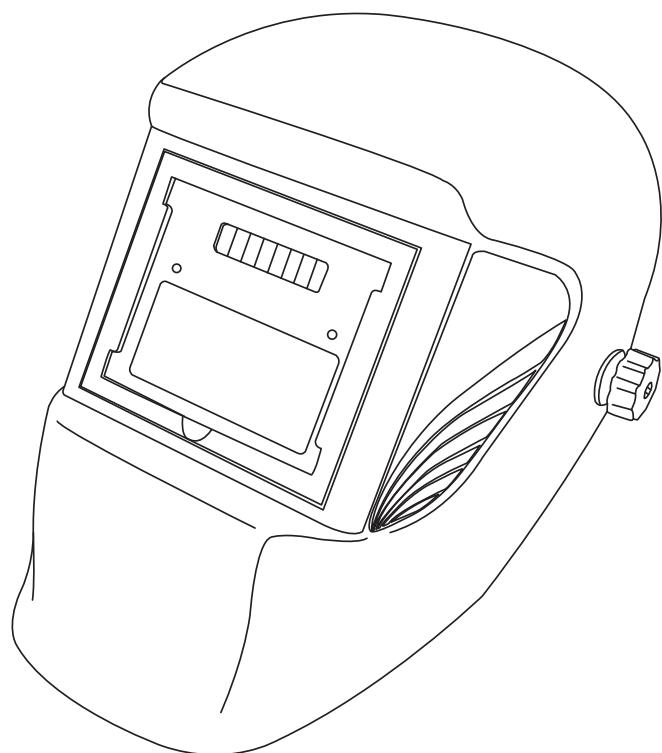


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PREFACE

Thanks for buying the Solar Powered Welding Helmet, another high-quality machine from our company.

To get the most out of your purchase, please read the manual before using the helmet.

We ask you to please read this manual carefully beforehand in order to familiarise yourself with this product and after reading, please store this instructional manual for future reference. Failure to follow the proper protocols listed in the manual may cause personal injury to the operator or damage to equipment.

ABOUT THE HELMET

The Solar Powered Welding Helmet provides eye protection from ultraviolet and infrared emissions that can occur while welding. The helmet has a fast response time feature that helps to prevent eye injuries and it can be tailored to whatever your welding project may be, simply adjust the shade of the lens according to the welding current.

The backup lithium battery can supply energy for two years without external power, making it a total energy saving device. The helmet automatically goes into a sleep state when not in use, and immediately wakes up when you need it again.

This welding helmet is suitable for all arc welding, but does not provide protection against autogen welding or laser welding.

OPERATING INSTRUCTIONS

BEFORE USE

Before welding, check the helmet is in good condition and the cover lens is fitted. Never use the helmet without the cover lens, or welding splashes may damage the filter glass.

1. Peel the protective film off of the inside and outside lens.
2. Prior to welding, the filter screen will be transparent. At the moment of welding, the filter screen will change from clear to dark. And then after each welding, the filter screen will automatically change back to clear.
3. Adjust the time-delay knob according to your current welding process.
4. Adjust the shade number knob according to the different welding current. To select the proper shade number, see table 1.
Select the shade with the shade adjuster to suit the welding current
5. Turn the headband until the adjustable knob is at the back. Manually press and at the same time rotate the adjustable knob counterclockwise to increase the circumference of the headband. To decrease the circumference, simply repeat this process in a clockwise direction.
6. Adjust the headband to one of the custom fit positions for proper helmet depth.
7. Unscrew the block nut, so the peg on the side of the welding helmet moves in to set the eye distance to filter.
8. Turn the limitation washer to adjust the viewing angle of the filter screen.
9. Put the helmet on your head and adjust the tension screw on your headband according to your preference.

- After welding, check the cover lens. If dust has accumulated on it, please wipe it off by using a soft cloth, or wash it with mild solution or soap. Do not use rough cloth or paper.
- Keep the helmet away from water and damp spaces.

AFTER USE

MAINTENANCE

- Clean the welding lens with a clean lint-free tissue or cloth with glass detergent. Do not immerse in water or other liquids. Never use solvents like oil to dilute the detergent.
- Use neutral detergent to clean the headband.
- Never directly strike the lens.
- Replace the inside cover lens if it is damaged (cracked, scratched, soiled or pitted).
- Don't remove the auto-darkening filter from the helmet. Never try to open the filter.

ELECTRIC WELDING AND GOUGING SCALE NUMBERS

Scale numbers ¹⁾ and recommended use for arc welding

		Current in Ampers																						
Welding Process or Released Techniques		0.5	2.5	10	20	40	80	125	175	225	275	350	450	500										
Covered Electrodes		1	5	15	30	60	100	150	200	250	300	400	500											
MIG on Heavy Metals ²⁾		9	10	11	12	13	14																	
MIG on Light Alloys		10	11	12	13	14	15																	
TIG on All Metals and Alloys		9	10	11	12	13	14																	
MAG		10	11	12	13	14	15																	
Arc-air Gouging		10	11	12	13	14	15																	
Plasma Jet Cutting		11	12	13																				
Arc-air Gouging		12	13	14	15																			
		0.5	2.5	5	10	15	20	30	40	60	80	100	125	150	175	200	225	250	275	300	350	400	450	500
		Current in Ampers																						

1. According to conditions of use, the next greater or lesser scale numbers can be used.

2. The term heavy metals applies to the steels, alloy steel and copper.

Please note that the solid areas correspond to a range not recommended for use in the current practice of manual welding.

SPECIFICATIONS

	Measurements in Metric	Measurements in Imperial
Cartridge Size	110 x 90 x 10mm	4 1/3" X 3 1/2" X 1/3"
Viewing Window	90 x 40mm	4 1/3" X 3 1/2" X 1/3"
Switch Time (Light to Dark, Dark to Light)	1/10000s <0. 1-IS (Automatic)	
Ultraviolet Protection	<0. 0001% (210-365nm)	
Infrared Protection	<0. 001% (780-2000nm)	
Shade Range	DIN 4/9-13	
Operation Temperature	-5°C to 55°C	
Weight	490g	1.08 pounds



Some experts believe the incorrect or prolonged use of almost any product could cause serious injury or death. For information that may reduce your risk of serious injury or death consult the points below and additionally, the information available at www.datastreamserver.com/safety

- Consult all documentation, packaging and product labelling before use. Note that some products feature online documentation which should be printed and kept with the product.
- Check product for loose / broken / damaged / missing parts, wear or leaks (if applicable) before each use. Never use a product with loose / broken / damaged / missing parts, wear or leaks (if applicable).
- Products must be inspected and serviced (if applicable) by a qualified specialist every 6 months assuming average residential use by a person of average weight and strength, above average technical aptitude, on a property matching average metropolitan specification. Intended use outside these guidelines could indicate the product is not suitable for intended use or may require more regular inspection or servicing.
- Ensure all possible users of the product have completed an industry recognised training course before being given access to the product.

- The product has been supplied by a general merchandise retailer that may not be familiar with your specific application or your description of the application. Be sure to attain third party approval for your application from a qualified specialist before use regardless of prior assurances by the retailer or its representatives.
- This product is not intended for use where fail-safe operation is required. As with any product (take an automobile, aircraft, computer or ball point pen for example) there is always a small chance of a technical issue that needs to be repaired or may require replacement of the product or a part. If the possibility of such failure and the associated time it takes to rectify could in any situation inconvenience the user, business or employee or could financially affect the user, business or employee then the product is not suitable for your requirements. This product is not for use where incorrect operation or a failure of any kind, including but not limited to a condition requiring product return, replacement, service by a technician or replacement of parts could cause a financial loss, loss of employee time or an inconvenience requiring compensation.
- If this item has been purchased in error considering the points above simply contact the retailer directly for details of their returns policies if required.