



100LW LASER WELDING HELMET

Product Code: 000000



CE
EN 207
EN ISO 16321



Laser Protection:

1000-1100 D LB7 + IR LB8

Optical Density (OD):

OD8 @1000-1100nm OD 10+@1064nm

ALL-AROUND SAFETY AGAINST LASER EXPOSURE

The 100LW Laser welding/cutting/cleaning helmet is specifically designed for laser welding/cutting/cleaning application to protect users. The variable shade lens provides full protection against direct laser exposure, as well as reflection, scattering, diffraction, and divergence from the laser beam. Meanwhile, it offers protection against UV/IR/bluelight.

KEY FEATURES

- **Effective laser protection**
Designed to meet EN207 OD10+@1064nm, the 100LW provides full protection to prevent eye burns, retinal damage and other tissue damage.
- **Advanced Headgear design**
Viewing angle and distance adjustable. Offers a better weight distribution for maximum comfortable feelings.
- **Ultra-clear vision**
Experience exceptional clarity and details with TECMEN's light state 2.0 variable shade laser lens. Superior vision quality leads to superior work quality.
- **Smart adjustment**
Shade number, delay and sensitivity all easily adjustable using our user-friendly panel.

SPECIFICATION

ADF SPECIFICATIONS	
OPTICAL CLASS	1 / 1 / 1 / 2
POWER ON/OFF	AUTOMATIC ON/OFF
LIGHT STATE	SHADE 2.0
SPECIAL MODES	GRIND / CUT / MIX / DARK
DELAY	0.1-1.0S,BUTTON CONTROL
OPERATING TEMP	-10°C TO 55°C 14°F TO 131°F
HELMET MATERIAL	SPECIAL COMPOUND MATERIAL
OPTICAL DENSITY(OD)	OD 8@1000-1100NM, OD 10+ @1064NM
VIEWING AREA	96X46.5MM
NUMBER OF SENSORS	2
DARK STATE	4-8/8-12
SWITCHING SPEED	1/25,000S, FROM LIGHT TO DARK
SENSITIVITY CONTROL	LOW-HIGH,BUTTON CONTROL
UV/IR PROTECTION	UP TO SHADE DIN 16 AT ALL TIMES
STORING TEMP	-20°C TO 70°C 4°F TO 158°F
LASER PROTECTION	1000-1100 D LB7+ IR LB8
APPROVALS	CE (EN 207, EN ISO 16321)





CE
EN 207
EN ISO 16321
EN 12941 TH3

PAPR SERIES LASER PROTECTION

FREFLOW V1 WITH 100LW RESPIRATORY LASER WELDING HELMET

All-in-one integrated PAPR system for laser welding/cutting/cleaning. The 100LW helmet provides full protection against direct laser exposure, as well as reflection, scattering, diffraction, and divergence from the laser beam. Meanwhile, the FreFlow V1 blower unit delivers a stable airflow to users with clean air.

FREFLOW POWERED AIR-PURIFYING RESPIRATOR FILTER SCHEMATIC

Freflow V1 PAPR is compact, flexible, and portable, with easy maintenance. It ensures a constant airflow delivery; even when the battery is low or the filter is clogged.

- | | |
|------------------------|--------------------------------------|
| A. Durable front cover | F. Odor filter |
| B. Spark screen | G. Fast rechargeable Lithium battery |
| C. Pre-filter | H. High quality brushless motor |
| D. Particle filter | I. Optional airflow rates |
| E. Gas filter | J. Hose |

RESPIRATOR

SPECIFICATIONS	
MODEL	FREFLOW V1100LW-V
AIRFLOW RATE	MANUFACTURER'S MINIMUM DESIGN FLOW RATE: 165 + IPM (5.5 + CFM)
	LOW SPEED: 170 + IPM (6 + CFM)
	HIGH SPEED: 210 + IPM (7.4 + CFM)
FAST-CHARGING	BATTERY TYPE: RECHARGEABLE LITHIUM BATTERY
BATTERY	STANDARD BATTERY DURATION:
	170 + IPM - 9 HOURS; 210 + IPM - 6 HOURS
	Extended battery duration:
	170 + IPM - 15 hours; 210 + IPM - 9 hours
BATTERY	Standard battery charge time: 1 hour
	Extended battery charge time: 2 hours
FILTER	Battery life: > 550 charges
	FILTER EFFICIENCY: > 99.997%
	Alarms: Visible, audible and vibration
	Particle filter (P3 Filter)
TEMPERATURE	Gas filter (A1B1E1K1/A2/Odo, Filter)
	OPERATING TEMPERATURE
TEMPERATURE	-S-C TO 5S-C (23°F TO 131 °F)
	STORAGE TEMPERATURE:
TEMPERATURE	-10-C TO 55-C (14-F TO 131°F)
	OPERATING R.H.: < 90%
RELATIVE HUMIDITY	STORAGE R.H.: < 85%
WEIGHT	1020G (BLEW,.. UNTT + RAST-CHARGIRV;I STANDARD BATTERY
RESPIRATOR	EN12941 PRSL. AS/NZS1716
APPROVAL	C E AS11LZS IR[



* This PAPR product is not suitable for 1M applications which request intrinsic safety (IS).

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