

## Product datasheet



# LC-WELD PRO

LC-SL1500W-PRO

## Technical information

### Main Data

|                            |                                                   |
|----------------------------|---------------------------------------------------|
| Model                      | LC-WELD PRO                                       |
| Product reference          | LC-SL1500W-PRO                                    |
| Electrical consumption     | <5500 W                                           |
| Voltage                    | 220-240VAC                                        |
| Power Stability (2 Hours)  | <1,5%                                             |
| Power stability (24 hours) | <2%                                               |
| Measures Approx.           | 450x720x1100 mm (Back in the bottle holder 500mm) |
| Weight Approx.             | <150kg                                            |
| Hose length                | 8m approx.                                        |

### Laser data

|                           |                    |
|---------------------------|--------------------|
| Model                     | L1500W-V5.1        |
| Product reference         | L1500W-V5.1-50µm   |
| Laser power               | ≤1500W             |
| Laser Type                | CW HPP             |
| Consumption               | <3800W             |
| Voltage                   | 220-240VAC   50 Hz |
| Maximum power consumption | 20 A               |
| Wavelength                | 1070nm ±10         |
| Power instability         | <2,5%              |
| Power range               | 1-100%             |
| Frequency range           | <50 kHz            |
| Laser efficiency          | 42%                |
| Start time                | 10 µs              |
| Connection type           | QBH                |
| Fiber length              | 10m                |

|                               |                                      |
|-------------------------------|--------------------------------------|
| Output fiber diameter         | 50 µm                                |
| Weight                        | 20kg                                 |
| Dimensions                    | 435x339x100mm                        |
| Room temperature              | 5~40°C                               |
| Ambient humidity              | 10-90%                               |
| Refrigeration need            | 2,2kW Q                              |
| Cooling method                | Water cooling                        |
| QBH cooling water temperature | Ambient temperature (non-condensing) |
| Cooling water temperature     | 24-26°C                              |
| Cooling water flow            | 30 L/min                             |
| Storage temperature           | -10-50°C                             |
| Laser Class                   | 4 (IEC 60825-1)                      |
| Pointer power                 | 1mW                                  |
| Pointer class                 | 2M (IEC 60825-1)                     |



#### Feeder data

|                   |                   |
|-------------------|-------------------|
| Model             | LC-FEED PRO       |
| Product reference | LC-FEED-PRO-V1.07 |
| Consumption       | <120W             |
| Strain            | 24Vdc             |
| Measures          | 340x500x460mm     |
| Weight            | <12kg             |

|                |                  |
|----------------|------------------|
| Type of motor  | DC PWM           |
| Other engine   | Includes Encoder |
| Control system | CANBUS           |

#### Dual feeder data

|                   |                              |
|-------------------|------------------------------|
| Model             | LC-FEED PRO DUAL             |
| Product reference | LC-WELD DOBLE ARRASTRE 1500W |
| Consumption       | <65W                         |
| Strain            | 24Vdc                        |
| Measures          | 100rpm                       |
| Weight            | 340x500x460mm                |
| Type of motor     | <15kg                        |
| Other engine      | DC PWM                       |
| Control system    | Encoder                      |
| Model             | CANBUS                       |



#### Welding gun data

|                      |                                        |
|----------------------|----------------------------------------|
| Model                | LC-WELD GUN SM                         |
| Material             | Aluminum/Stainless                     |
| Product reference    | LCWELD GUN SM V 4.2                    |
| Weight               | 670g                                   |
| Measures             | 230x210x30mm                           |
| Focal lens type      | F150 $\lambda=1060-1080\text{nm}$      |
| Lens protector type  | 99.999% T $\lambda=1060-1080\text{nm}$ |
| Collimator lens type | F=50C $\lambda=1060-1080\text{nm}$     |
| Connection           | QBH                                    |

|                           |                             |
|---------------------------|-----------------------------|
| System                    | Steering mirror (S.M.)      |
| Number of lenses          | 1                           |
| Number of lens protectors | 2                           |
| Number of collimator lens | 1                           |
| Compatible machines       | LC WELD PRO & LC WELD SMART |
| Driver                    | LC_FMR-20_DRIVER_Rev2       |
| Maximum equipment power   | <2000W                      |
| Power supply              | 24V                         |
| Communication             | CANBUS                      |

