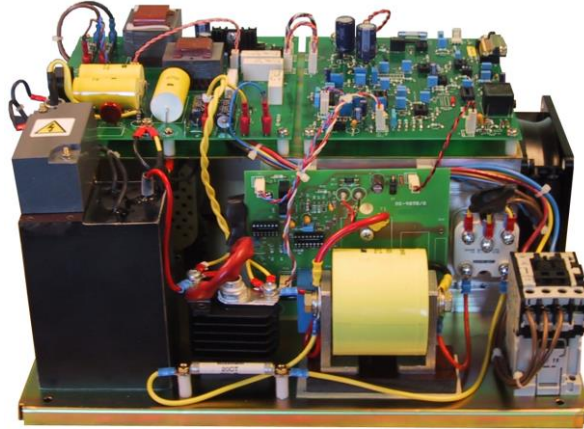


OEM Arc Lamp CW Laser Power Supply

Model 2010A



Description

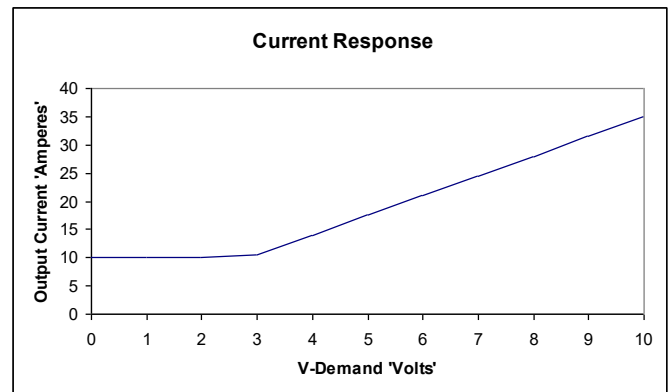
The product is a Open Chassis CW Arc Lamp power supply and is designed for operation from European 380V/415V 3-ph + N, 50Hz line supply, for use to output power levels of 6kW. The unit features 'integrated boost', 'series trigger', and 'automatic ignition' and incorporates many safety features. A flexible design approach has produced a unit which is ideal for OEM system integrators offering excellent value for money and reliability.

Highlights

- 6kW output power
- 35A Maximum output current
- Robust Design using IGBT technology
- Remote control
- Fully RoHS compliant
- After sales engineering support.
- Ease of maintenance.
- 2 year warranty
- Compliant with the following safety standards;
 - EN61010-1
- An EMC Filter is fitted.
- **NOTE:- it is the system builder's responsibility to ensure these safety standards are maintained.**

Electrical Characteristics

Line Input 3-Phase + N	380 – 415 VAC
AC Supply Tolerance	± 10%
Frequency	47 to 63Hz
Power Factor (Full Load)	≥0.9
Crest Factor (Full Load)	≤1.8
Output Ripple (Full Load)	1% (3% peak to peak) 1kHz Band Width
Line Regulation	0.1% for ± 10% Line Voltage Change
Output Drift	≤0.1% over 8 hour period (with constant temp, load & Line conditions)
Efficiency	≥90%
Ignition Pulse Voltage	28kV, nominal
Boost Voltage	1000V, nominal
Output Rating	35A/6kW





Control Functions

- Interlock (Volt free link)
- Status, over-temperature & answer-back (opto output)
- Lamp 'ON' Answer Back (Volt free relay contact)
- Output Current Demand Voltage 0-10VDC
- Output Current Monitor Voltage 0-10VDC

Control Connector Pinout

The unit is fitted with a 15-way 'D' (female) connector for remote operation.

Interlock	link	1	9	+12V
Interlock		2	10	N.C.
Start		3	11	+ V-monitor (10V=100%)
OCL (SW +12V)		4	12	Signal 0V Return
Status		5	13	+ V-Demand (10V=100%)
Over Temp		6	14	0V Return
Answer Back		7	15	Chassis Earth
Common		8		

Safety

All control circuitry is low voltage and wiring has full galvanic isolation from the line supply.

The build standards comply with EN61010-1 and conform to the requirements of the Low Voltage Directive 73/23/EEC.

Should the lamp fail to ignite the trigger and boost voltages are removed from the output terminals.

An EMC Filter is fitted.

NOTE:- it is the system builder's responsibility to ensure these safety standards are maintained

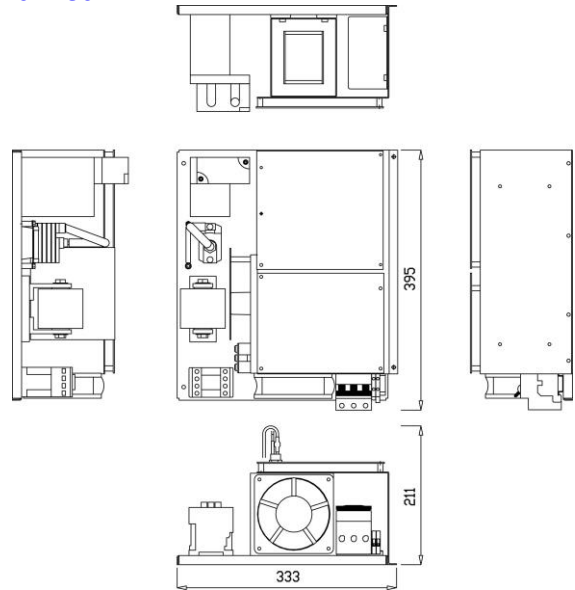
Protection

Protection on the line input is by VDE rated circuit breaker.

Output protection is included in the event of a lamp failure or connection to earth by a latching over current limit ('OCL').

Thermal protection is included against overload.

Mechanical



- Cooling** Forced air, entering at the right side and exiting at the left side.
- Temperature** Continuous in an ambient of 0°C to 60 °C with appropriate de-rating above 35 °C.

Contact Details

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ACCESORIES

Part No.	Description
2012	2U 19" Controller Panel
2019	Optical Feedback Unit

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