

DESIGNED FOR CW AND QCW APPLICATIONS



4KW OEM Configuration

Features and Benefits

- **Dual Mode Operation to 4KW (CW or QCW)**
- **Power Factor Correction (PFC) and High Efficiency Operation**
- **Cost Saving OEM Design**
- **RoHS Compliant**
- **Lightweight and Durable Construction**
- **Laser Diode Protection**
- **Universal Single Phase Input for Worldwide Operation**

Dual Mode CW / Quasi-CW Laser Diode Driver

7900-04 Series Specifications

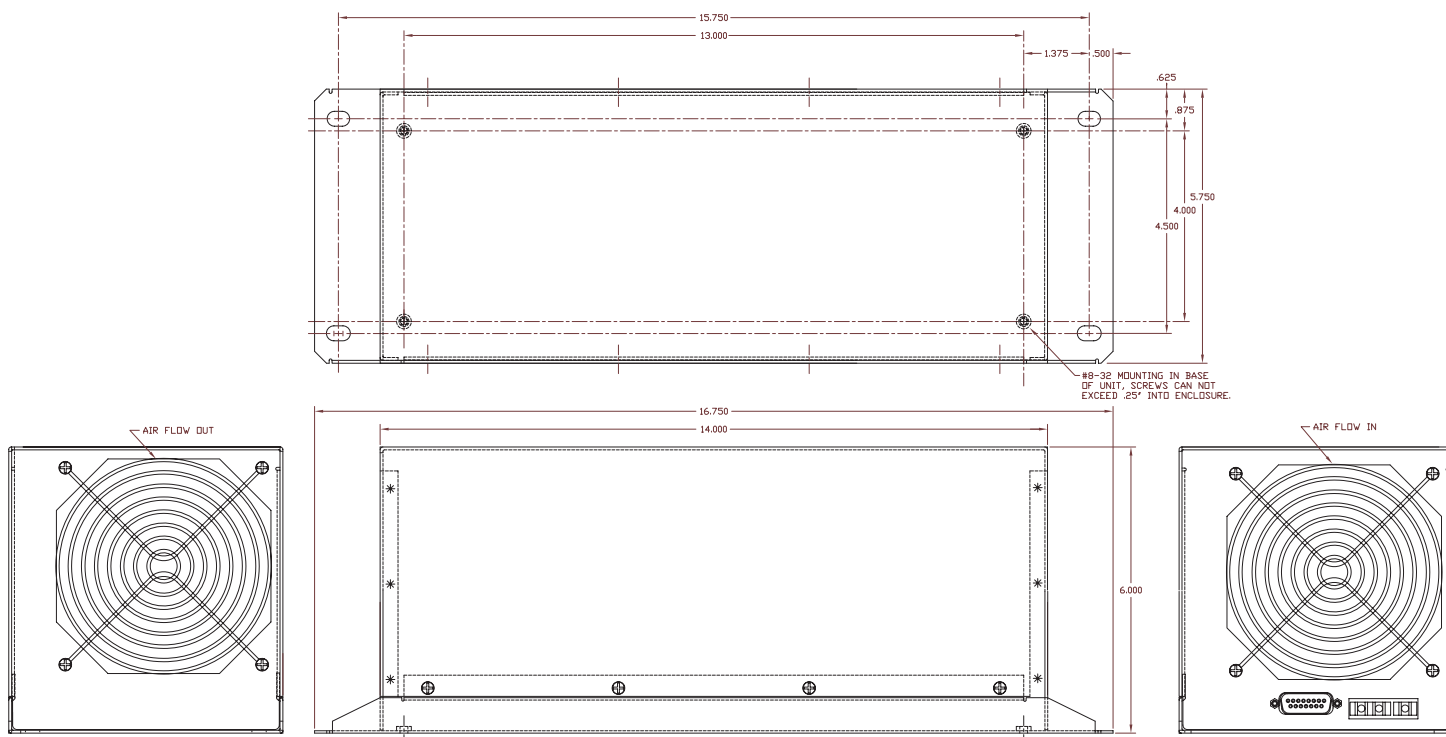
Input	
Voltage	Universal 185 - 254 VAC Single Phase
Current	<20 Amps @ 185 VAC
Frequency	50/60 Hertz, Nominal 47 - 63 Hertz, Operational
Efficiency	92 - 94%
Leakage	Per EN60950
Hi-Pot	Mains to Earth - Per EN60950 Mains to SELV - Per EN60950
Output	
Voltage	50 VDC Maximum
Operational Current	80 Amps Maximum Adjustable
Polarity	Positive
Ripple	< 1.0 % p-p
Delay Time (Propagation)	250 μ Sec @ 80 Amp (On command to 50% output current)
Rise Time	300 μ Sec @ 80 Amp (5% Max Overshoot in QCW Mode)
Power	4000 J/sec
Protection	Short Circuit Open Circuit Over Temperature
Safety	
Designed to Meet	EN60950 CB Certificate

EMI/EMC
Designed to Meet EN61326:1998 (With External Filter)
I/O Connectors
Input 3 Position Terminal Block
Output .50" x .04" Copper Tab with #8 Screw Hole
Auxiliary Output 2 Position Terminal Block
Control Interface
15 Pin D Style Female Connector
Environmental
Operational Temperature 10 to 40 ° C, Ambient
Storage Temperature -20 to 70 ° C
Cooling Internal Fans

Mechanical
Weight Approximately 12 lb. / 5.5 Kg
Dimensions 16.750" x 6.000" x 5.750"
Features
RoHS Compliant
Power Factor Correction
Universal Line Input (Automatic)
Diode Protection
Aux Output
Optional EMI/EMC Filter4

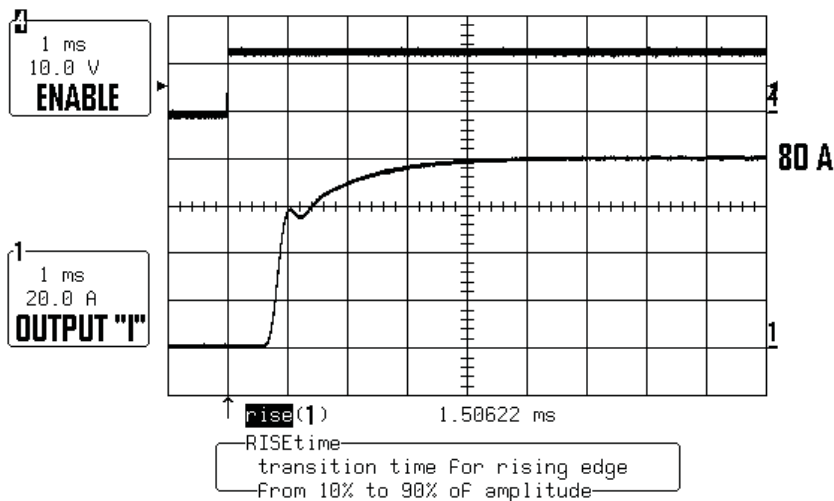


4KW LASER DIODE DRIVER DESIGNED FOR CW AND QUASI-CW APPLICATIONS



Drive Enclosure

Dimensions in inches except where indicated



Current Rise Time

Characteristic Current Rise Time

Safety and Operating Considerations

CAUTION - The laser light emitted from laser diodes may be invisible and could cause injury. Follow all necessary safety precautions when operating any laser.



Martek Power Laser Drive

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