

Pulsed Diode Drivers with DC Input

The Pulsed Diode Drivers PDD-1000 is a series of high power pulsed diode drivers. The peak output power is up to 10kW (with user selectable maximal current and maximal voltage). The averaged output power is up to 1000W.

The PDD-1000 is especially designed for direct diode hair removal application. As a result the input voltage is DC (supposing the driver is powered from the buffer capacitor battery included in system). Such compositions allow also to use both flashlamp and diode applicators in the only system (e. g. capacitor charging power supply PCA-10 with PDD-1000).



Input	Power input voltage Power input current Module input	300VDC by default (other on request) up to 5A, typically +24VDC, 1A max
Output	Peak power (P_{peak}) Maximal voltage (V_{max}) Maximal current (I_{max}) Pulse width Rise/fall time Average power Pulse repetition rate Current accuracy Current overshoot	10kW 50V by default (up to 200V by request, $V_{max} * I_{max} < P_{peak}$) 200A by default (other on request, $V_{max} * I_{max} < P_{peak}$) 1ms - 100ms (other on request) <1ms (10-90% level) 1kW limited with pulse energy and max. average power only < 1% of I_{max} < 1% of I_{max}
Safety	EMI	EN55011 since module is a DC/DC converter, other safety features must be realized in AC/DC converters used in system
Environment	Cooling Operating temperature Storage temperature Humidity	forced air (with built-in fan) 0°C to +40°C -20°C to +60°C 90%, non-condensing
Other	Size (L x W x H) Weight	256x199x81mm 2.2kg