



Laser Driver CML 48-40-80

High Power in a Compact Half Brick Size

FEATURES

- High Power in a Compact Half Brick Size
- Fully Digital or Analog Control
- Wide Supply Voltage Range 12-48VDC
- Output Current up to 80A Per Unit
- Stackable for Higher Current
- Output Power up to 3kW
- 0.5% Current Stability
- 1% Current Setpoint Accuracy
- High Efficiency up to 98%
- Safety Interlock with Independent HW Crowbar
- Overheating Protection
- User Settable Current Limit
- RoHS Compliant



BASIC OPERATION PARAMETERS

PARAMETR	MIN	TYP	MAX
V_{IN} [V]	14	48	51
V_{OUT} [V]	1		$0,8 \cdot V_{IN}$
I_{OUT} [A]	0/5		80

Specification

PARAMETER	CONDITIONS	MIN	TYP	MAX	UNIT
Rise time (typ.)	$I_{OUT} = 0/80$ A		1.5		ms
Fall time (typ.)	$I_{OUT} = 80/0$ A		1.5		ms
Current drift			<1		%
V_{IN} quiescent current	$V_{IN}=48V$; driver is ready to operate		17		mA
Input capacitance			280		μF
Output capacitance			25		μF
Overheating shutdown			80		$^{\circ}C$
Overheating hysteresis			5		$^{\circ}C$
I-Set pin		0		2.5	V
I-Set pin vs I_{OUT}			40		A/V
Current set step	Set by RS232		0.1		A
U-Out-Mon pin vs U_{OUT}			1		V/V
I-Mon pin		0		2.5	V
I-Mon pin vs I_{OUT}			40		A/V
Crowbar status pin	Crowbar active/non active		0/10		V
Crowbar clamp resistance			3		m Ω
Interlock pin	Crowbar ON/OFF	0	0/5/10	10	V
Operating temperature		0	25	55	$^{\circ}C$
Dimensions L x W x H			57.9x61x23		mm
Weight			155		G

High Power Laser Diode Driver

