

LAPS3800

ACDC Power Supply for Laser Applications



Base plate cooled, DC and pulsed applications, 3 phase universal mains (no neutral). Current sharing, up to 6 units in parallel. Special design to handle any kind of pulsed loads

Solution for
Laser / Industry

Product range	Power
LAPS120	120 W (AUX)
LAPS2400	2.4 kW
LAPS3800	3.8 kW
LAPS21000	21 kW

Technical Data

Input

Nominal input voltage	180 V ... 528 Vac, 3 phase, 50/60 Hz
Hold up time	> 10 ms
Inrush current	< 20 A

Output

Output voltage	5 ... 52 V _{dc} (programmable, V and I mode)
Ripple and noise	<50 mVpp
Line regulation	<0,1 %
Load regulation	<1 %
Total output power	3800 W
Efficiency (typical)	93 %
Start-up time	1000 ms

General

Operating temperature range	Baseplate: 5 ... + 35 °C; Ambient 0 ... + 50 °C
MTBF	300.000 Hrs, (35 °C, GB)
Protections	Over-current, Over-voltage and Over-temperature
Safety	EN/UL/CSA 61010
EMC	IEC61000-6-2, IEC61000-6-4, F47
Dimensions W x D x H	103 mm x 407 mm x 85 mm
Cooling	Baseplate

LAP53800

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Technical Data

Input

Analog voltage set point	0 ... 5,2 V
Current set point	0 ... 5,2 V
Voltage reference	5,2 V
Aux supply	12 V, 150 mA
Error status	Open collector output
AC fail	Open collector output
DC fail	Open collector output
Enable input	Digital input (12 and 24 V compliant)
Enabled feedback	Open collector output
Interlock 1	Interlock input (12 and 24 V compliant)
Interlock 2	Interlock input (12 and 24 V compliant)
Interlock status feedback 1	Opto-coupler output
Interlock status feedback 2	Opto-coupler output
RS485	Serial interface for status information Full digital interface on request
Current share bus	For parallel operation
Sense input	Voltage sense inputs