

Switched mode power supply for diode-pumped laser

Information



Switched mode laser power supply is designed for supplying diode array, which are used for pumping powerful solid or fiber lasers. Power supply is designed for operation in the laboratory, educational, experimental and industrial applications. Additionally the power supply can be equipped with a LD thermal stabilization controller (TEC controller). Also it has current limit, duty cycle limit and safety interlocks. Could be modified by a customer's request for the optimal selection of parameters for a specific load.

Specifications

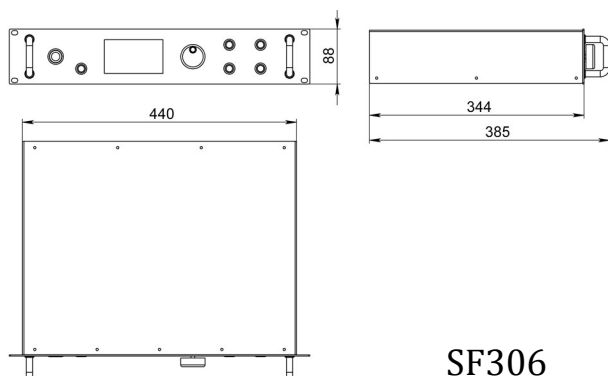
	SF306	SF315	SF350
Pulse rate* (F)	1 — 500 Hz, single pulse	1 — 500 Hz, single pulse	1 — 1000 Hz, single pulse
Output voltage* (V)	0-140 V	0-300 V	0-300 V
Output current* (I)	1-150 A	1-300 A	1-350 A
Pulse duration* (τ)	50-1000 μ s	50-1000 μ s	50-1000 μ s
Rise time**	<60 μ s	<60 μ s	<60 μ s
Fall time**	<60 μ s	<60 μ s	<60 μ s
Output current tolerance	0.3 %	0.3 %	0.3 %
Average output power* (P)	0.4 kW	1.5 kW	4.6 kW
Data display	LCD	LCD	LCD
Communication interface***	RS232	RS232	RS232
Trigger in	5 V, 10 μ s	5 V, 10 μ s	5 V, 10 μ s
Trigger out	5 V, 10 μ s	5 V, 10 μ s	5 V, 10 μ s
Trigger out delay	1-1100 μ s	1-1100 μ s	1-1100 μ s
Interlock	switch contact closure	switch contact closure	switch contact closure
Power Input	single phase 220 VAC, 50Hz	single phase 220 VAC, 50Hz	three phase 220/380 VAC, 50Hz
Type of cooling	air cooling	air cooling	air / Water cooling
Dimensions	440*88*345 mm; 2U	440*132*440 mm; 3U	440*177*485 mm; 4U
Weight	10 kg	12 kg	25 kg

* Values are limited by average power: $F \cdot V \cdot I \cdot \tau \leq P$

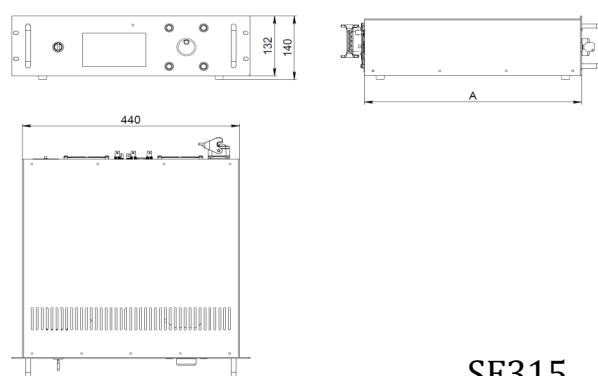
**With a length of laser diode power wire is not more than 2m

***Installation of FOCL, LAN on request

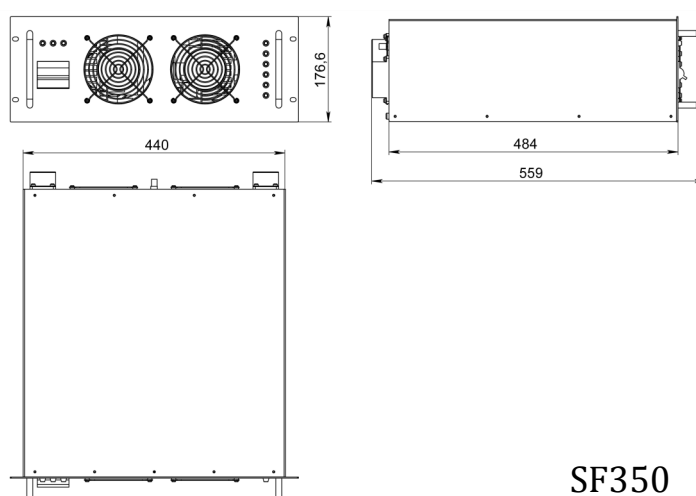
Dimensions



SF306



SF315



SF350

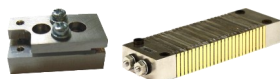
Examples of laser diode arrays



FL-AA05-3X10-6000-808
FL-GS02-25X1-3750-808
FL-GS04-5X1-750-808
FL-GS05-5X1-1250-808
FL-VS120-Nx1-500xN-808(Q)
FL-HCS02-250-808(Q)



SLM-2 / SLM-2-1N / SLM-3
SLM-3-3600-1 / SLM-P-0.5N-3
SLM-P-2NSH
ILD-8 / IL-1M
LLDII-70-940-1



ATC-Q120-11 / ATC-Q200-11
ATC-Q250-11 / ATC-Q5000-10x20
ATC-Q2500-5x20