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Switched mode power supply for diode-pumped laser

Information



- Designed to power the diode arrays used to pump high-power solid-state or fiber lasers.
- Optimized for use as part of laboratory, educational, experimental and industrial applications.
- In addition, it can be equipped with a controller of thermal stabilization of Peltier elements (TEC controller).
- It has current limit, duty cycle limit and safety interlocks.
- It can be modified according to customer requirements for optimal selection of parameters for a specific load.

Specifications

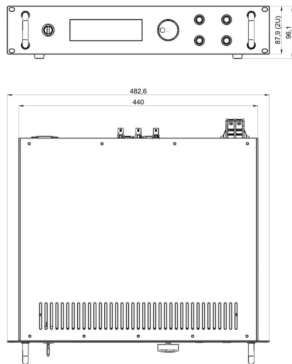
| Parameter Type | SF306 | SF315 | SF350 |
|----------------------------|-------------------------------|-------------------------------|---------------------------------------|
| Pulse rate* (F) | 1 — 500 Hz, single pulse | 1 — 500 Hz, single pulse | 1 — 1000 Hz, single pulse |
| Output voltage* (V) | 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 (SF350) Light Indication (SF350M) |
| 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: $F \cdot V \cdot I \cdot \tau \leq P$

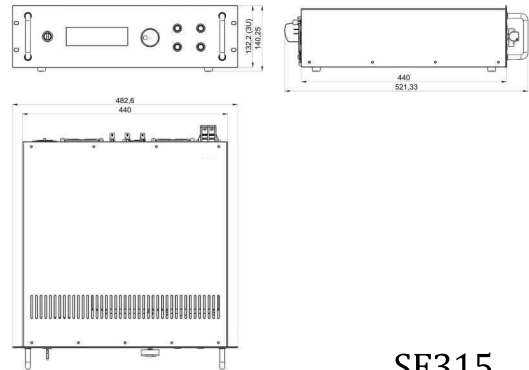
**With a length of laser diode power wire is not more than 2m

***Installation of FOCL, LAN on request

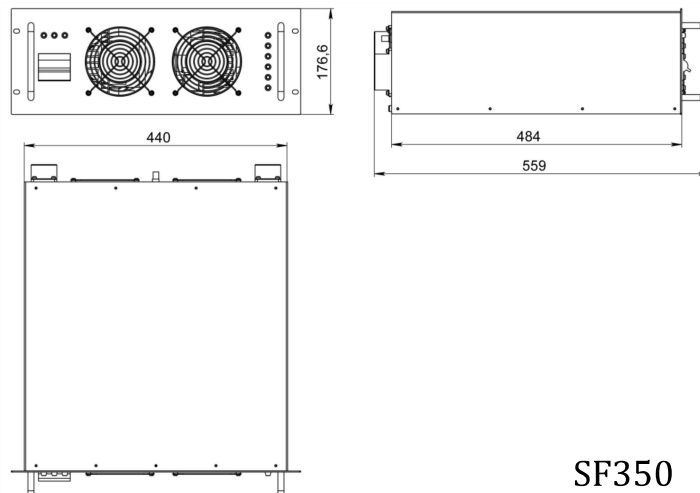
Dimensions



SF306



SF315



SF350

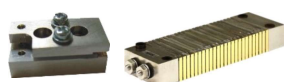
Examples of laser diode arrays



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)



СЛМ-2 / СЛМ-2-1Н / СЛМ-3
 СЛМ-3-3600-1 / СЛМ-П-0.5Н-3
 СЛМ-П-2НШ
 ИЛД-8 / ИЛ-1М
 ЛЛДИИ-70-940-1



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