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LASER LAB SOURCE
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Diode driver (QCW / CW)



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 is modified according to customer requirements for optimal selection of parameters for a specific load.

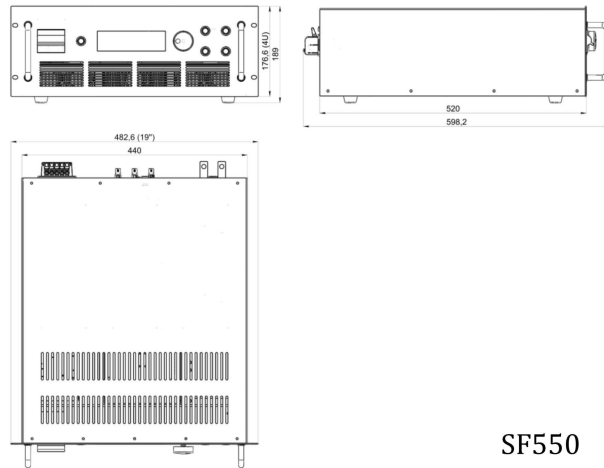
Specifications

	SF550-160/30	SF550-120/40	SF550-80/60	SF550-60/80	SF550-40/120
- Pulse (QCW) mode -					
Pulse rate* (F)	1-1000 Hz, single mode				
Output voltage* (V)	0-30V	0-40V	0-60V	0-80V	0-120V
Output current* (I)	1-320A	1-240A	1-160A	1-120A	1-80A
Pulse duration* (τ)	50-1000 μ s				
Rise time**	<60 μ s				
Fall time**	<60 μ s				
- CW mode -					
Output voltage* (V)	0-30V	0-40V	0-60V	0-80V	0-120V
Output current* (I)	1-160A	1-120A	1-80A	1-60A	1-40A
- General characteristics -					
Output current tolerance	0.3 %				
Average output power* (P)	4.8 kW				
Data display	LCD				
Communication interface	RS232, RS485 (optional)				
Trigger in	5 V, 10 μ s				
Trigger out	5 V, 10 μ s				
Interlock	switch contact closure				
Cooling	air cooled				
Power Input	three phase 220/380 VAC, 50Hz				
Dimensions	440*177*520 mm; 4U				
Weight	25 kg				

* Values are limited by average power: $F \cdot V \cdot I \cdot \tau \leq P$ (pulse mode); $V \cdot I \leq P$ (CW mode)

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

Dimensions

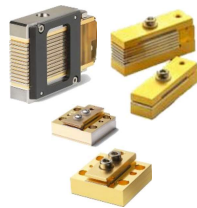


SF550

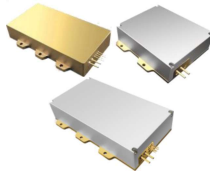
Examples of laser diode arrays



Laser II-VI



BPC/OPC40W,60W& 80W — 92A 1,8V
 BPC/OPC80W — 81A 1,65V
 HPC50W — 54A 1,65V
 Monsoon Compact framed vertical stack module
 Monsoon Frameless Vertical Stack Module
 Compact Bar on Microchannel cooler and etc.



808nm150W - 11A 40V / 915nm150W — 13,5A 24V
 915nm158W - 11A 36V / 915nm200W — 13,5A 35V
 940nm150W - 14A 24V / 940nm200W — 14A 35V
 976nm150W - 14A 23,8V / 976nm200W — 14A 35V
 976nm100W - 11,5A 24V / 976nm140W — 14A 23,8V
 976nm180W - 14A 35V
 915/940/976nm на 600W / 1000W / 2000W / 3000W and etc.



Vshiny FL-HVS61-6X1-360-760 — 80A 15V
 Vshiny FL-HVS61-6X1-600-1060 — 115A 2V
 Vsilk FL-1200-1000-808 — 110A 20V and etc.



Emitter of injection lasers IL-1M2
 KMLD-130 — 65A 6V
 32DL-504 / LLD-10
 SLM-7 / SLM-P-8N
 SLMP-6HII / LLD-500-1 and etc.