

CAPACITOR CHARGING POWER SUPPLY

Part No: PPS7KW500HZ

Superior Reliability & Performance



- MAXIMUM AVERAGE POWER UP TO 6000W
- PULSE DURATION 0.3 to 20ms
- AIR COOLED
- 3 PHASE 380 VAC
- MICROPROCESSOR CONTROLLED
- 6U HIGH 19" RACK MOUNT

Description:

The **PPS7KW500HZ** Capacitor Charging power supply is designed to power a flash-lamp with a pulsed drive current. The **PPS7KW500HZ** offers a maximum energy per pulse of 1000 joules with pulse durations in the range of 0.3 to 20ms and pulse repetition rates in the range of 1 to 500 Hz.

Applications:

Power Supply Unit is intended for use as a part of a industrial laser system for the cutting and welding of metals.

LASER S.O.S. GROUP

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Features:

Specifications:

Description	Parameters	Units
Maximum Average Power	6000	W
Maximum Pulse Power	1000	J
Maximum Average Current over Pulse	600	A
Maximum Peak Voltage	450	V
Minimum Peak Voltage	300	V
Series Trigger Volts	25	kV
Simmer Current	0.9, 2A boost during pulse	A
Pulse Duration	0.3 - 20	ms
Repetition Rate	1 - 500	Hz
Ko range	15.6 – 24.0	$\Omega A^{1/2}$
Ko range at maximum energy	15.7 – 24.0	$\Omega A^{1/2}$

Electrical Requirements:

Phase	3	network
Volts	380 + 10%	VAC
Frequency	50	Hz
Maximum Power Demand	7.0	kW

Environmental Conditions:

Ambient Temperature	+1 – 35	°C
Relative Air Humidity	≤ 80% at 25 °C	%

Size and Weight:

Size (H x W x D)	266 x 483 x 681	mm
Weight	~ 50	kg

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 Layout outline:

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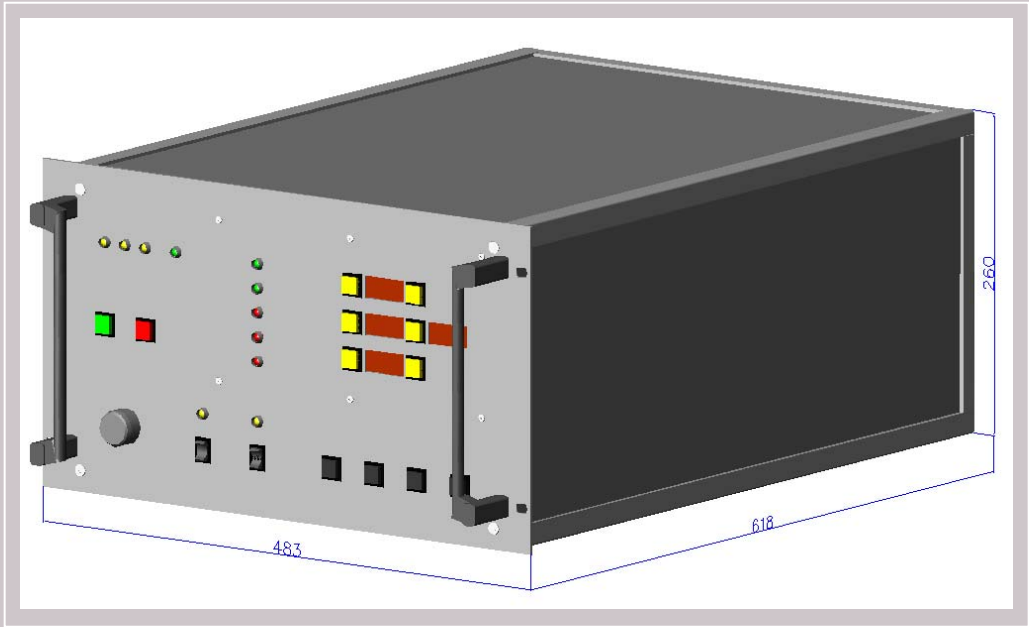
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Layout outline: Front Side



Layout outline: Rear Side



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