DY10 Power Supply Instruction

I. Instruction for sub-connection wire of the control end							
1		2	3	4	5	6	
	5V	TH	TL	WP	G	IN	
1)		-			-	e cardinal plate.	
		-	ng the power	with potention	neter and the	5V current shou	
	be less than 10 mA.						
2)	TH. TL refers to high and low power level respectively, and WP refers to wate protection.						
3)	Footer 5 G refers to ground, and 6 refers to input end.						
4)	When connecting the control plate, connect the light signal with footer 2 in the case of high power level light-emitting, (footer 3 for low power level						
	-		-	d-wire with fo ake short circu		nect footer 6 wi 4 and 5.	
5)	PWM can also be used in footer 6, but the pulse peak is required to reach 5						
	and the	frequency sho	ould be above	20K.			
6)	For test	ting: 3, 4 and 3	5 are in short o	circuit (or 4, 5	are in short of	circuit and 3, 5 a	
	connected to switch), the potentiometer center is connected with 6 IN, and the						
	two oth	ner ends are co	nnected to 5V	and ground (1	and 5) respe	ectively.	
7)	The hig	gh power leve	l controls the	light, 1 and 2	are connecte	d, and 4 and 5 a	
	in wate	r protection.					
8)	It is n	ot proposed	to control las	er nower wit	h high-frequ	ency modulatio	

- 8) It is not proposed to control laser power with high-frequency modulation, because it will have impact on the service life of the laser.
- 9) The model is applicable to W2 laser, it is necessary to regulate and use the current according to the laser instructions.
- 10) The ammeter is concatenated to the cathode line.

II. Instruction for power wire

Footer 1	footer 2 footer3
Ground	AC 220V 50HZ 10A

Note: The table 10A refers to the connection wire requirement, but not the actual power dissipation.

III. Instruction for laser connection wire

- 1) The positive red-line with high voltage is connected to the laser tail
- 2) The negative white-line is connected to laser output window

IV. Current limitation

To limit the working current, the potentiometer (lies in the underside of the power supply) should be rotated in counterclockwise (please refer to the schematic diagram in our website: www.recilaser.com). Limit the maximum output current as it is regulated in the operating instruction. The working current should be limited before delivery.

V. Linear scale between input signal and the output current

Turn around the potentiometer; the linear scale will be changed: for example, when the input signal is 0-5V, the output current is 0-32mA.Or when the input signal is 0-2V; the output signal is 0-32mA.

Note: when the potentiometer is turned down too much, the real output current will be brought down by the same input signal.

VI. Using current

The use standard for our power supply is under 220V, 50Hz. The fluctuation of the input voltage and frequency will affect the working current provided by the power supply, the effection is linear relative. The unstable of the input voltage will affect the output power of the laser tube. The fluctuation of the input voltage has no effection on the lifespan of the laser if only the current provided by the power supply is not over the current limitation.