About the Chart:

Supply types have their connectors defined in columns

The dark outlines define discrete connectors for each supply type (column)

The colors match the color of connectors for that supply type

The order and position of the pins inside the discrete connector outlines may or may not be in their actual order

The colums left or right of a given column describe an equivalent signal and function

	Instructions for using the LPS Configuration Chart	
	How to use this chart for LPS conversions	**How to use this chart for verifying the control functions of your supply**
1	Find the column that best fits the signals on your current supply	Pick the column that best fits the signals on your supply
2	Find a column that best fits your new supply	Go to the "Verification" column and for each signal use the instructions to check its function
3	Take the wire from the current supply and connect it to the equivalent signal, function & pin of the new supply	

				Connector Configuraton for Various Laser Power Supply Models						
				A	B	C	D	E	F	G
Function	**VERIFICATION [Note: 8]**	**Connection if Analog Panel Installed**	**Connection if digital panel**	**Standard**	**D variant**		**MYJG 150**		**HY-50**	
Job control of laser power	0-5V proportional to Power setting from job	From controller L signal	From controller L signal	L	L	Not supported	Not supported	L [Note: 5]	Not supported	L
DC power to controller	5V	5V to controller (NANO) [Note: 6]	5V to controller (NANO) [Note: 6]	5V	5V			5V		5V
Ground refererence	0V	GND to controller	GND to controller	G	G			G		G
Motor power to controller	24VDC	24V to controller [Note: 6]	24V to controller [Note: 6]	24V	24V			24V		24V
DC power for panel	5V	To Pot [Note: 7]	CN7-5V	5V	5V	5V	5V	5V	5V	5V
Manual analog control of power	0-5V proportional to pot position. Full CW =Max = 5V	From Pot wiper	CN7-IN	IN	IN	IN	IN	IN	IN	IN
Ground reference	0V	To other side of pot	CN7-G	GND	GND	GND	GND [Note:2]	GND	GND	GND
Fires the laser if Laser Switch ON	0V when button pushed	To "Laser Test" Button	CN7-P+	K+	K+	L	T	L [Note:5]	TH	TL
GND reference	0V	From other pole of Laser Test Button	n/c	K-	K-	n/a	[Note:1]	n/a	Note: 1	Note:4
						n/a	L Note:3	n/a	TL Note: 3	
GND reference	0V	From other pole of "Laser Switch"	n/c	Gnd	D-	GND		GND		GND
Enables the laser	0V when switch "ON"	To "Laser Switch" [Note: 8]	n/c IN is not asserted if Laser Switch is off	P+	D+	P+	P+	P+	WP	WP
Mains power from main swith	May be 120 or 220V Input, check Voltage Switch on side of supply	AC Mains Line	AC Mains Line	L	L	L	L	L	L	L
		AC Mains Neutral	AC Mains Neutral	N	N	N	N	N	N	N
Safety Ground	0V	Frame Ground	Frame Ground	FG	FG	FG	FG	FG	FG	FG
Returns cathode current to LPS	0V	To - side of laser current meter	To - side of laser current meter	L-	L-	L-		L-	L-	L-

Chart Notes:	
1. Connect the other side of switch to 5V	6. 1A capacity
2. Insure LPS GND connected to controller GND	7. 50ma capacity
3. Connect the controller PWM signal here	8. Add interlocks in series with this circuit
4. Connect other side of switch to GND	9. With the (-) black lead of the DVM on a GND pin read the DVM voltage on the associated signal
5. The L pins are connected together internally	10. CN7 is the connector on digital panel