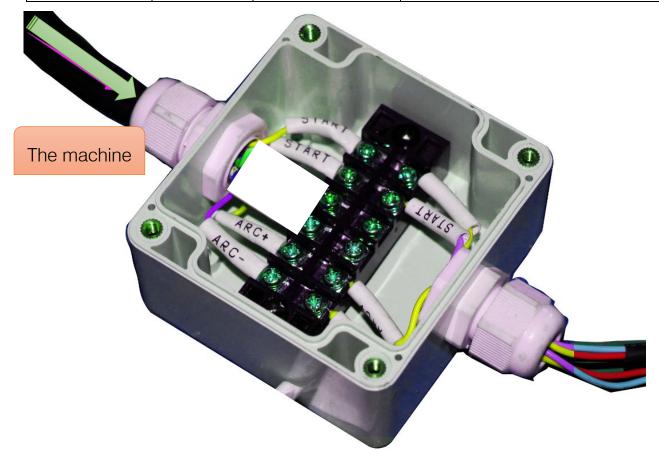
## How to connect Powermax65&85 with Thunder X-PRO

The Powermax65&85 connect to Thunder X-PRO, 4 wires need to be connected.

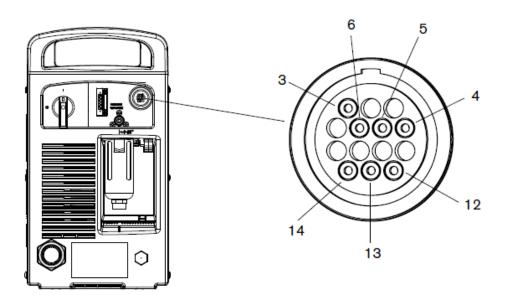
• The Machine connect terminal:

Machine	Aviation plug	Terminal No.	Description	
	0.0010	START	The CNC plasma arc initiation signal	
	2-core	START		
Thunder X-PRO				
connect terminal				
	0.0070	ARC+	The CNC ere uplices signal	
	2-core	ARC-	The CNC arc voltage signal	



• POWERMAX65&85 connect terminal:

Note: The customer needs to connect the power cable according to the actual plasma models.



## Plasma interface signals:

## Machine interface cable signals

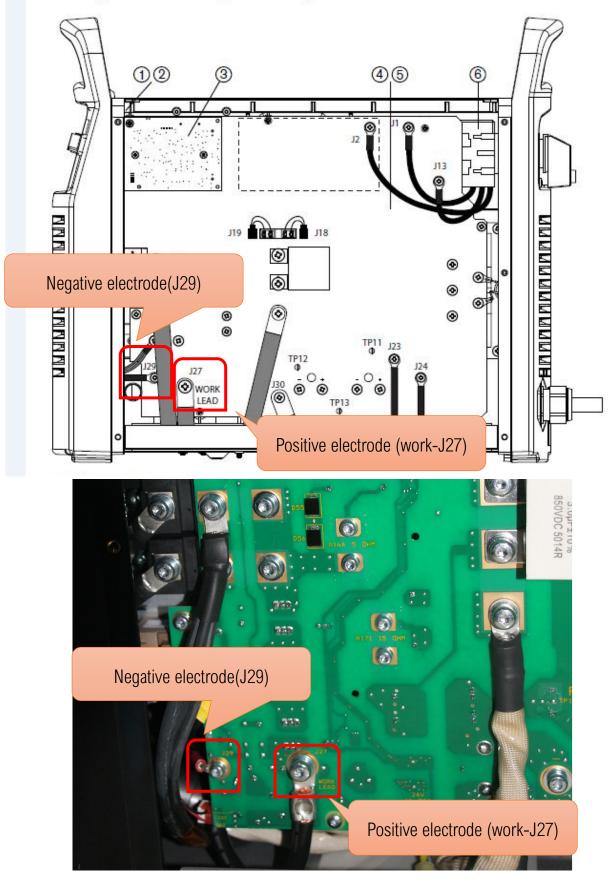
Refer to the following table for the cable signal details when connecting the power supply to a torch height controller or CNC controller with a machine interface cable.

Signal	Туре	Notes	Connector sockets	External cable wires	Internal cable wires
Start (start plasma) Input		Normally open.	3	Green	Black
	15 VDC open circuit voltage at START terminals. Requires dry contact closure to activate.	4	Black	Red	
Transfer (start machine Outpu motion)		Normally open. Dry contact closure when the arc transfers. 120 VAC / 1 A maximum at the machine interface relay.	12	Red	White
	Output		14	Black	Green
Voltage divider		Divided arc signal of 20:1, 21.1:1, 30:1, 40:1, 50:1 (provides a maximum of 16 V).	5 (-)	Black (-)	Black (-)
	Output		6 (+)	White (+)	Red (+)
Ground	Ground		13		Green/yellow

The original arc voltage position of the plasma power supply:



Interior, power board side (380/400V CE)



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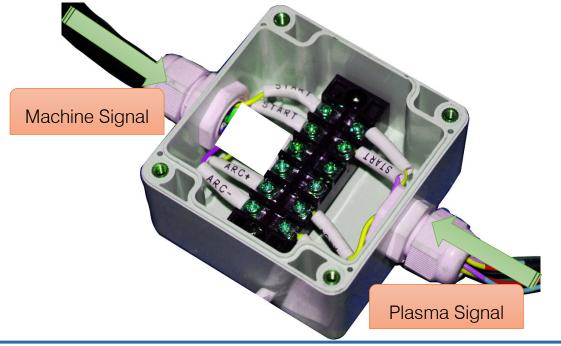
NOTES 1: Positive electrode (work--J27) of Plasma power is connected the ground wire. and check it by multimeter. If **[** work **]** is not connected the ground wire, please find the other port.

Negative electrode(J29) of Plasma power is connected the plasma torch. and check it by multimeter; If 【J29】 is not connected the ground wire, please find the other port.

• Cable connecting method:

	Torminal No.	Corresponding interface of	The interface
	Terminal No.	POWERMAX65&85	position
	START	3 Input Start	
	START	4 Input Start	
Thunder X-PRO	TRANS/FEEDBACK	EEDBACK 12 Output Transfer	
connect terminal	TRANS/FEEDBACK	14 Output Transfer	&85 Interface
	ARC+	Positive electrode (workJ27)	
	ARC-	Negative electrode(J29)	

Connect the machine to the plasma signal with terminal blocks:



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