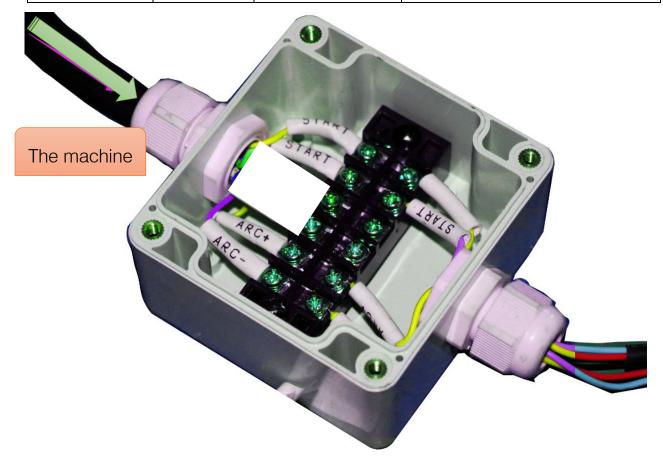


How to connect Powermax65&85 with Tube-S&Tube-mini

- ◆ The Powermax65&85 connect to Tube-S&Tube-mini, 4 wires need to be connected.
- ◆ The Machine connect terminal:

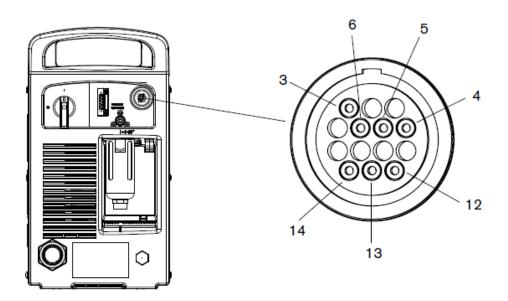
Machine	Aviation plug	Terminal No.	Description	
	2 0000	START	The CNC plasma arc initiation signal	
T	2-core	START		
Tube-S&Tube-				
mini connect				
terminal				
torrinia	2-core	ARC+	The CNC arc voltage signal	
		ARC-		





◆ POWERMAX65&85 connect terminal:

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



Plasma interface signals:

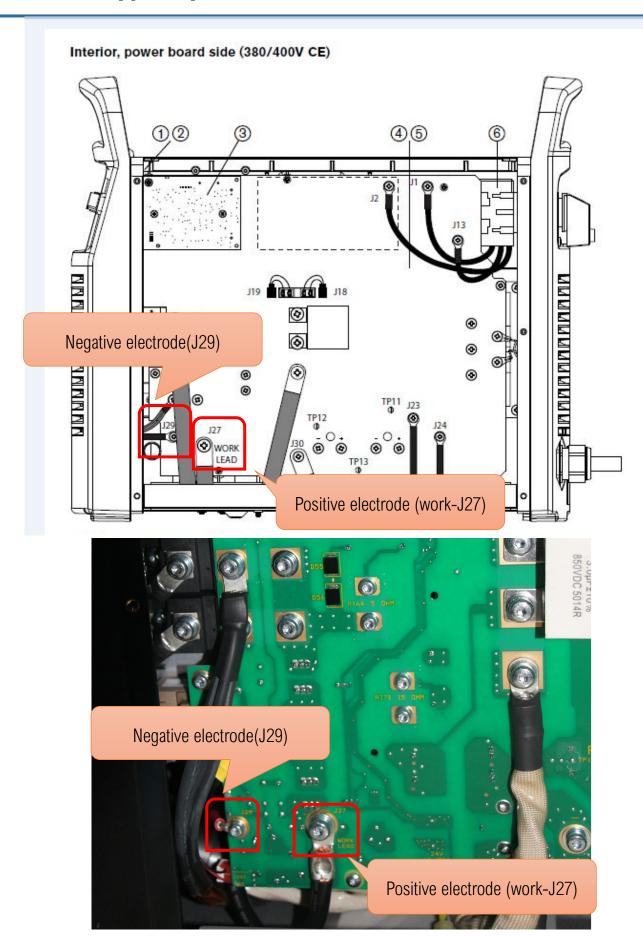
Machine interface cable signals

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
	Input	15 VDC open circuit voltage at START terminals. Requires dry contact closure to activate.	4	Black	Red
Transfer (start machine Outp 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	Output	Divided arc signal of 20:1, 21.1:1, 30:1, 40:1, 50:1 (provides a maximum of 16 V).	5 (-)	Black (-)	Black (-)
			6 (+)	White (+)	Red (+)
Ground	Ground		13		Green/yellow

The original arc voltage position of the plasma power supply:







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
Tube-S&Tube- mini connect terminal	START	3 Input Start	
	START	4 Input Start	
	TRANS/FEEDBACK	12 Output Transfer	POWERMAX65
	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:

