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J1: Auxiliary Output Connections. Connector type: JST-B7B-EHA

Pin	Function
1	SMPS Standby
2	Amplifier Standby
3	Positive Unregulated Auxiliary Output Voltage
4	Positive Regulated Auxiliary Output Voltage
5	Ground
6	Negative Regulated Auxiliary Output Voltage
7	Negative Unregulated Auxiliary Output Voltage

J2: Main Output Connections. Connector type: JST-B5P-VH

Pin	Function
1	Positive Output Voltage (Vcc)
2	Output Ground
3	Negative Output Voltage (Vee)
4	DC Error Input (OEM amplifier series only)
5	Auto Amplifier Enable

J4: Mains Input. Connector type: JST-B3P-VH

Pin	Function
1, 3	Mains Input
2	*

* As per Class 2 ground is NC and so unavailable for safety ground. You must follow Class 2 safety standards in implementing the SMPS180. Also read <http://www.hypex.nl/docs/earth.pdf>

J5: DC Error In. Connector type: 2-pin MOLEX® KK® series

Pin	Function
1	DC Error Input 1 (UcD-series ST/HG or generic amplifier)
2	DC Error Input 2 (UcD-series ST/HG or generic amplifier)

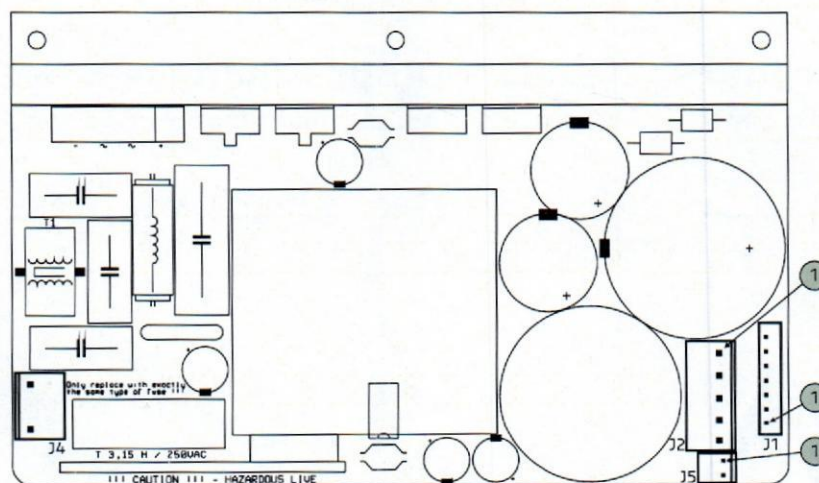


Fig1. Connector pinning SMPS180.

SMPS Standby Input Characteristics

Applying an external DC voltage to this input will put the SMPS in standby. Both main and auxiliary output voltages will drop gradually. Removing the standby voltage will result in a normal soft started start-up of the SMPS180.

Item	Type	Min	Typ	Max	Unit	Notes
DC voltage on J1:1	input	3,3		12	Vdc	

Amplifier Standby Input Characteristics

Applying an external DC voltage to the amplifier standby pin will put the amplifier in standby. The connected amplifier must be connected to Auto Amplifier Enable, described below, in order to use this option.

Item	Type	Min	Typ	Max	Unit	Notes
DC voltage on J1:2	input	0		Vcc	Vdc	

Positive Unregulated Auxiliary Output Characteristics

The SMPS180 provides Unregulated Aux Outputs to enable the user to create one's own external regulation.

Item	Type	Min	Typ	Max	Unit	Notes
DC voltage on J1:3	output	14		18	Vdc	*

* This output is proportional with Vcc.

Positive Regulated Auxiliary Output Characteristics

The SMPS180 provides Regulated Auxiliary Output Voltages that are available for external auxiliary purposes.

Item	Type	Min	Typ	Max	Unit	Notes
DC voltage on J1:4	output	11	11,5	12	Vdc	

Output Ground

The Output Ground reference. Main Output Ground and Auxiliary Ground are connected together on the board.

Negative Regulated Auxiliary Output Characteristics

The SMPS180 provides Regulated Auxiliary Output Voltages that are available for external auxiliary purposes.

Item	Type	Min	Typ	Max	Unit	Notes
DC voltage on J1:6	output	11	11,5	12	Vdc	