

Section 7 Power Redundant Modules(II) PW711

The DC power redundant module PW711 is used for power supply of 2-channel DC power in parallel, has 2-channel input and 1-channel output interfaces, and can work with general 24V DC power.

7.1 Selection Instruction

Table 7-1 Redundant Selection Instruction

Module Model	Matching Power	Remarks
PW711	PW731, PW732, PW733, PW732W, PW733W	One PW711 can be selected for a pair of redundant powers.

7.2 Technical Specifications

Table 7-2 Technical Specifications for PW711

Item	Specifications	
Module Model	PW711	
Module Name	SUPCON Power Redundant Modules(II)	
Interface	2-Channel Input, 1-Channel Output	
Temperature	Storage Temperature	(-40~+85)°C
	Operating Temperature	(-40~+70)°C
Humidity	(5~95)%RH, No Condensing	
Input Voltage	(12~28)V DC $\pm 25\%$	
Maximum Input Voltage	35V DC	
Input Current	The sum of two-channel input current is no greater than 20A (Up to 20A is allowed in single channel).	
Output Voltage	<ul style="list-style-type: none"> When input current is 2×5A, the output voltage is $V_{in}-0.46V$ (typical value). When input current is 2×10A, the output voltage is $V_{in}-0.56V$ (typical value). When input current is 1×20A, the output voltage is $V_{in}-0.65V$ (typical value). 	
Output Current	(0~20)A	
Consumption	<ul style="list-style-type: none"> When input current is 2×5A, the consumption is 4.6W (typical value). When input current is 2×10A, the consumption is 11.2W (typical value). When input current is 1×20A, the consumption is 12.9W (typical value). 	
MTBF	<ul style="list-style-type: none"> 19408000h @24V, 20A, 25°C 46382000h@24V, 10A, 25°C 	
Wire Diameter	<ul style="list-style-type: none"> Solid Wire: $\leq 6mm^2$ Multi-core Wire: $\leq 4mm^2$ 	
Wiring Torque	1Nm	
Stripping Length	$\leq 7mm$	
Weight	280g	

7.3 Structure Diagram

Dimension of PW711: H124.0×W39.0×D124.0mm.

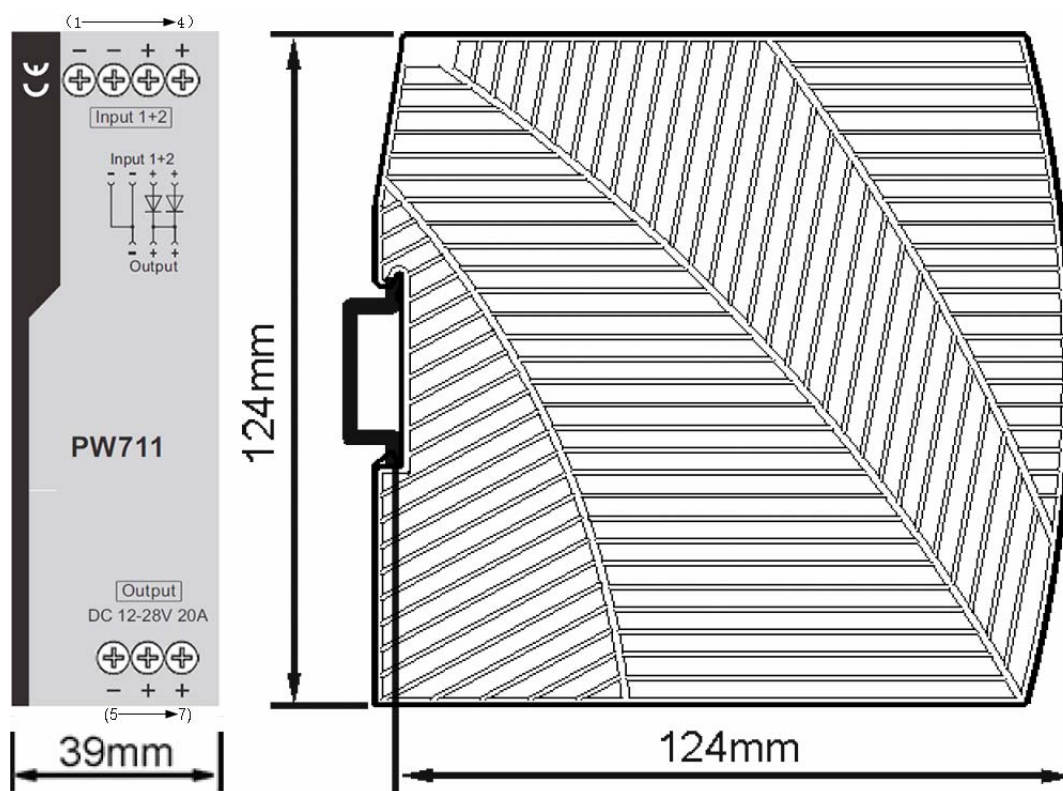


Figure 7-1 Dimension Diagram of PW711

7.4 Wiring Instruction

Table 7-3 Terminal wiring instruction of PW711

Terminal Serial No.	Feature	Terminal Sign	Instruction
1	VinA+	+	A Power DC 24V Positive Input Terminal
2	VinB+	+	B Power DC 24V Positive Input Terminal
3	Vin-	-	A Power DC 24V Negative Input Terminal
4		-	B Power DC 24V Negative Input Terminal
5	Vout+	+	24V Power Positive Output Terminal
6		+	24V Power Positive Output Terminal
7	Vout-	-	24V Power Negative Output Terminal

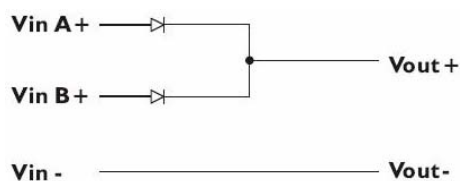


Figure 7-2 Circuit Diagram of PW711

Example

Each pair of 20A power can be matched with 1 PW711. The application wiring is shown as below. The maximum load capacity of the circuit is 20A, and capacity expansion is not supported.

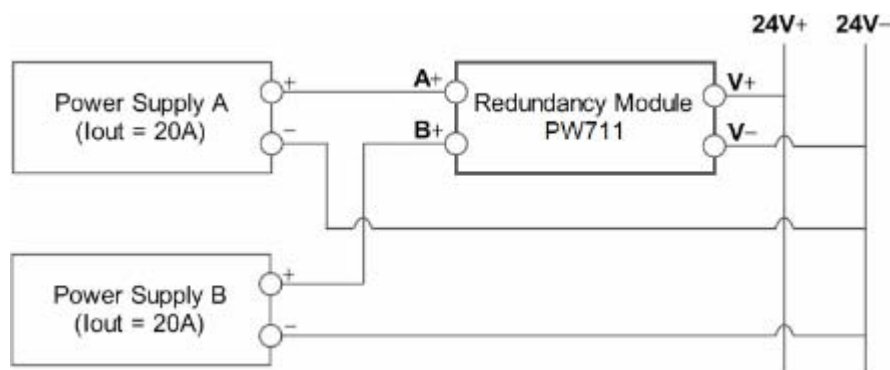


Figure 7-3 Example 1 for PW711

In order to improve reliability and maintainability of the module, each pair of 20A power can be matched with 2 PW711. The application wiring is shown as below. The maximum load capacity of the circuit is 20A, and capacity expansion is not supported.

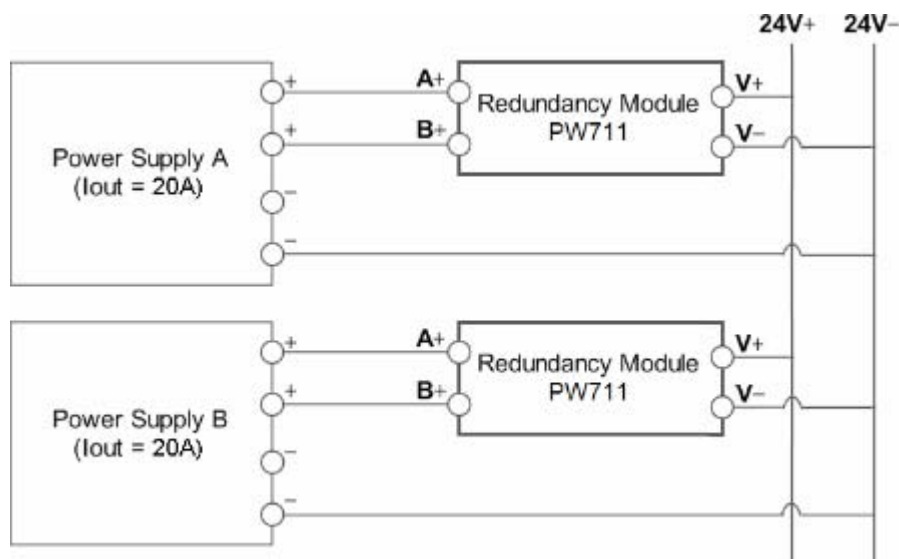


Figure 7-4 Example 2 for PW711