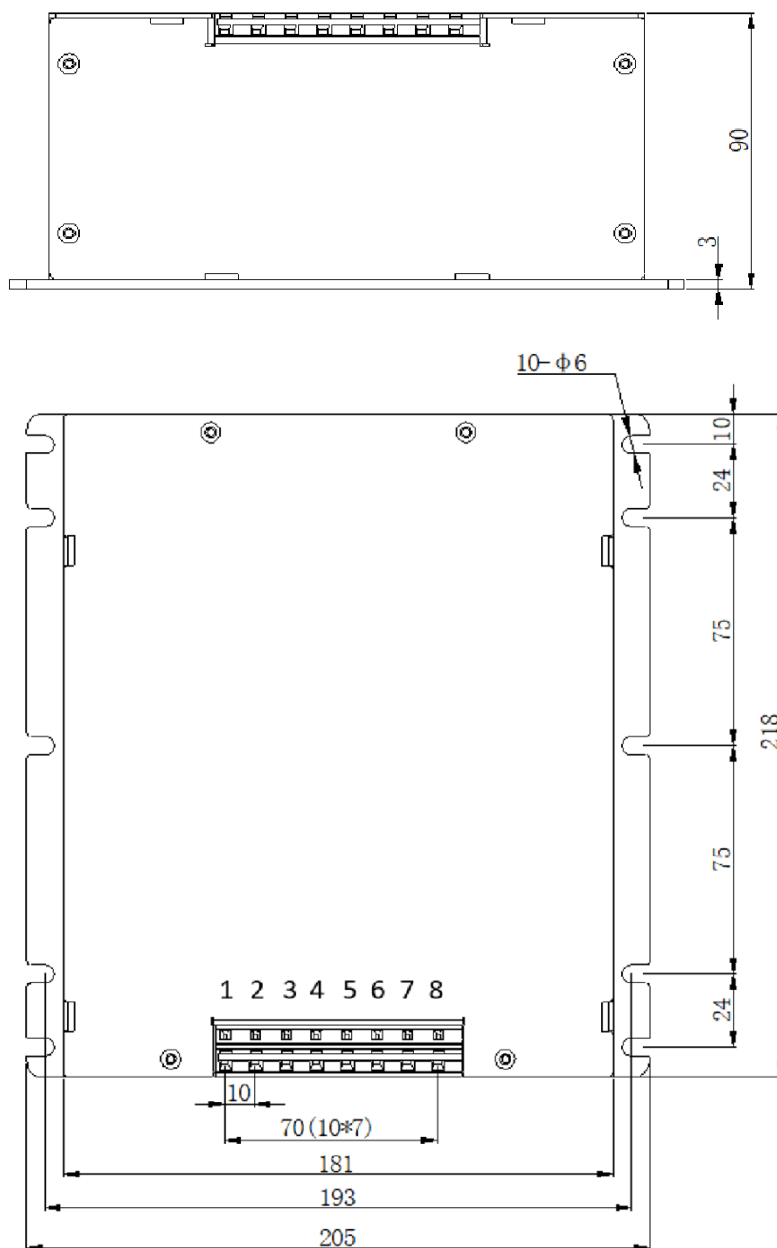


Features

- ✧ Wide Input Voltage Range (500~1000Vdc), Single Output
- ✧ Input Under Voltage Protection, Input Over Voltage Protection
- ✧ Output Over Voltage Protection (Single Automatic Recovery, Multiple Locks), Output Over Current Protection
- ✧ Output Short-circuit Protection, Automatic Recovery
- ✧ 4800Vdc Min. Isolation Voltage
- ✧ Operation Ambient Temperature -40 °C to +85 °C
- ✧ Applications: Industry control, Railway & Rail transit etc.

Outline Diagram



Note1: Units: mm(inches) Default Tolerance: X.X±0.5(X.XX±0.02) X.XX±0.25(X.XXX±0.010)

Note2: Case Material: Aluminum ; Note3: Wet Weight: ≤3KG

Input 500-1000Vdc Output 24V/12.5A

Pin	Symbol	Connection type	Voltage Class	Function
1	+Vin	M5 Screw bolt installation in the order of flat pad, spring pad, nut, wiring, and nut	DC750V	750V Positive Input Line
2	-Vin		DC750V	750V Negative Input Line
3/4	NC		—	No Connection
5	+Vo		DC24V	Positive Output
6	-Vo		DC24V	Negative Output
7	Battery		DC24V	Battery voltage detection signal line
8	GND		DC24V	Battery signal ground

Definition of indicator lights

Definition	Color	Signal	Notes
OK	Green light	Output voltage is normal	When the pin 7 detects that the battery voltage is lower than the required value (including hanging), the emergency power supply will start working and the output voltage is normal, then the light will turn green.
OFF	Light off	When Pin 5 No output voltage or output voltage not within the specified range	—

Specification

Unless otherwise specified, all values are given at: 25°C, $V_{in}=750V$, one standard atmosphere pressure, pure resistive load.

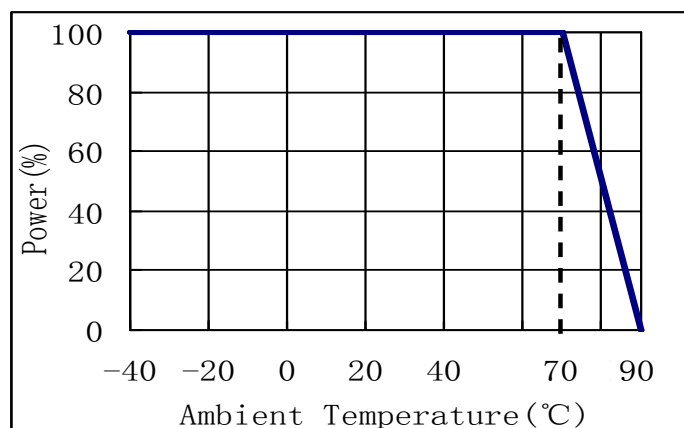
Parameter	Symbol	Min	Typ	Max	Unit	Conditions
Input Voltage	V_{in}	500	750	1000	Vdc	—
Input Under Voltage Protection	V_{UVLO}	450	470	490	V	—
Input Over Voltage Protection	V_{OVLO}	1030	1060	1100	V	—
Output Voltage Setting Accuracy	$V_{o, set}$	23.76	24.00	24.24	V	$V_{in}=750V$, Full load
Parameter	Symbol	Min	Typ	Max	Unit	Conditions
Output Current	$I_{o, nom}$	—	12.5	—	A	—
Output Over Voltage Protection	$V_{ov, set}$	25.3	26.5	28	V	$V_{in}=750V$
Line Regulation	S_V	—	—	± 3	% V_O	$I_O=I_{o, nom}$
Load Regulation	S_I	—	—	± 3	% V_O	$V_{in}=750V$, $I_O: 10\% \sim 100\% I_{o, nom}$
Output Over Current Protection Range	$I_{o, lim}$	15	—	—	A	$V_{in}=750V$

Input 500-1000Vdc Output 24V/12.5A

Start-up Delay Time	T_{delay}	—	—	2000	ms	$I_o = I_{o,\text{nom}}$
Capacitive Load	C_o	0	—	5000	μF	$I_o = I_{o,\text{nom}}$, pure resistive load
Peak to Peak Ripple and Noise	ΔV_{pp}	—	—	200	mV	$V_{\text{in}} = 750\text{V}$, $I_o = I_{o,\text{nom}}$, 20MHz bandwidth, a 10 μF Tantalum capacitor and a 1 μF ceramic capacitor
Output Short-circuit Protection	automatic recovery					
Load Transient	Recovery Time	t_{tr}	—	—	500	μs
	Voltage Deviation	ΔV_{tr}	—	—	± 5.0	% V_o
Temperature Coefficient	S_T	—	—	0.02	%/ $^{\circ}\text{C}$	—
Efficiency	η	80	—	—	%	$V_{\text{in}} = 750\text{V}$, $I_o = I_{o,\text{nom}}$
Isolation Voltage	V_{iso}	4800	—	—	Vdc	Input to output, 10mA
		4800	—	—	Vdc	Input to Case, 10mA
		1060	—	—	Vdc	Output to Case, 10mA
Isolation Resistance	R_{iso}	200	—	—	M Ω	500Vdc
Operating Ambient Temperature	—	-40	—	+85	$^{\circ}\text{C}$	See the derating curve
Storage Temperature	—	-55	—	+85	$^{\circ}\text{C}$	—
Input anti reverse	Input anti reverse by diodes					
MTBF	—	—	2×10^5	—	h	BELLCORE TR-332
Weight	—	—	—	3	Kg	—

Characteristic Curves

Derating



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