



## Input Characteristics

Item	Test Condition / Description	MIN	TYP	MAX
Input voltage range	DC input	250VDC	1000VDC	1500VDC
Input current	Vin = 1000VDC	-	300mA	-
Surge current	Vin = 300VDC	-	30A	-
Input UVP	Input under voltage trigger point	-	220VDC	-
	Input under voltage released point	-	240VDC	-
Input reversed polarity protection	If input polarity is reversed, the PSU should not be damaged	Available		
External input fuse	4A/1500V, time lag type is preferred	Required		

## Output Characteristics

Item	Test Condition / Description	MIN	TYP	MAX
Voltage accuracy		-	±2%	-
Line regulation	100%Io	-	±1.5%	-
Load regulation	10%-100%Io	-	±1.5%	-
Ripple and noise*1	20MHz bandwidth (Peak-peak value)	-	300mV	-
OCP	Output over current protection	≥110%Io, Self recovery		
SCP	Output short circuit protection	Self recovery		
Minimum load		0	-	-
Start-up delay time		-	3s	-
Hold-up time		-	10ms	-
Hot plug		Prohibited		
Paralleled working		Prohibited		

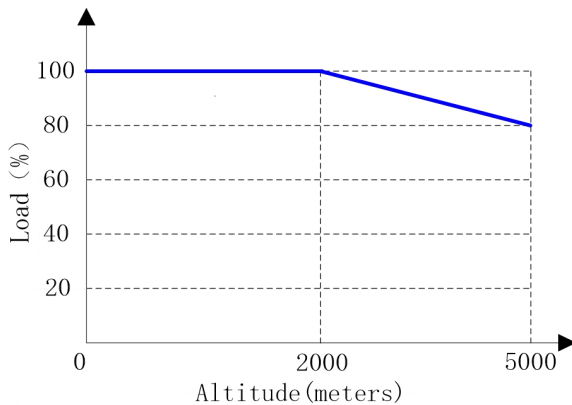
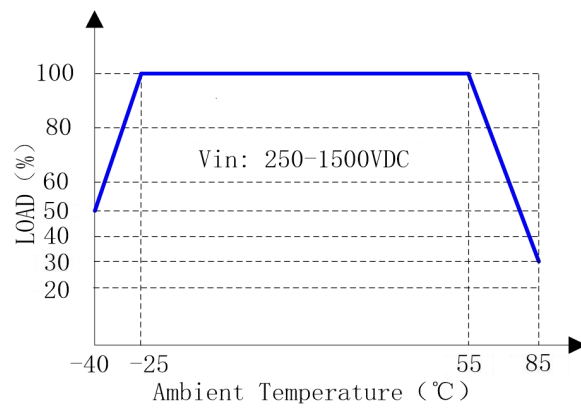
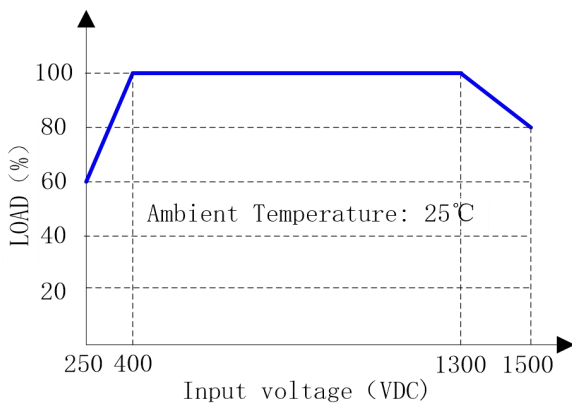
Remark \*1: Oscilloscope probe should be connected with the paralleled combination of a 10uF high frequency low resistance electrolytic capacitor and a 0.1uF ceramic capacitor.

## General Characteristics

Item	Test Condition / Description	MIN	TYP	MAX
Working temperature		-40℃	-	+85℃
Storage temperature		-40℃	-	+85℃
Storage humidity		-	-	95%RH
Switching frequency		-	65kHz	-

Isolation voltage	Input to output, 60s, $\leq 5\text{mA}$	4000VAC	-	-
	Input to case, 60s, $\leq 5\text{mA}$	3000VAC		
	output to case, 60s, $\leq 5\text{mA}$	3000VAC		
MTBF	MIL-HDBK-217F@25°C	215000h	-	-
Weight		-	680g	-
Cooling method	Natural air cooling (forced air cooling is recommended)			

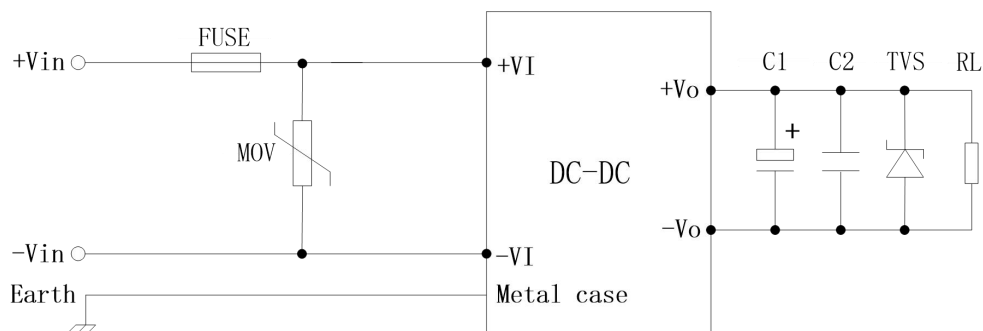
## Derating Curves



Comment: Derating should be considered base on temperature, input voltage and altitude.

## Application Notes

### 1. Application circuit recommendation



## 2. Input part recommendation

Component	Function and description	Recommendation
FUSE	Cut off fault circuit	Required, 4A/1500V
MOV	Absorb surge energy	Varistor, two 112KD14 in series

## 3. Output part recommendation

Output voltage	C1	C2	TVS	RL
12V	680 $\mu$ F/25V	1 $\mu$ F/50V	1.5KE18CA	User load
15V	680 $\mu$ F/25V	1 $\mu$ F/50V	1.5KE20CA	
24V	470 $\mu$ F/35V	1 $\mu$ F/50V	1.5KE30CA	
28V	470 $\mu$ F/35V	1 $\mu$ F/50V	1.5KE36CA	
32V	220 $\mu$ F/50V	1 $\mu$ F/50V	1.5KE39CA	
48V	100 $\mu$ F/63V	1 $\mu$ F/100V	1.5KE62CA	

### Remarks:

- C1: Output filter electrolytic capacitor, high frequency low resistance electrolytic capacitor is recommended.
- C2: Ceramic capacitor to suppress high frequency noise.
- TVS: Transient suppression diode to protect post-stage circuit (user load).

### Notes:

- If not specified, the test condition is ambient temperature 25 $^{\circ}$ C, humidity < 75%, input voltage 1000VDC and output rated load.
- All parameters listed in the data sheet are tested according to the company's enterprise standards.
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