


## CE-NP15 Power source

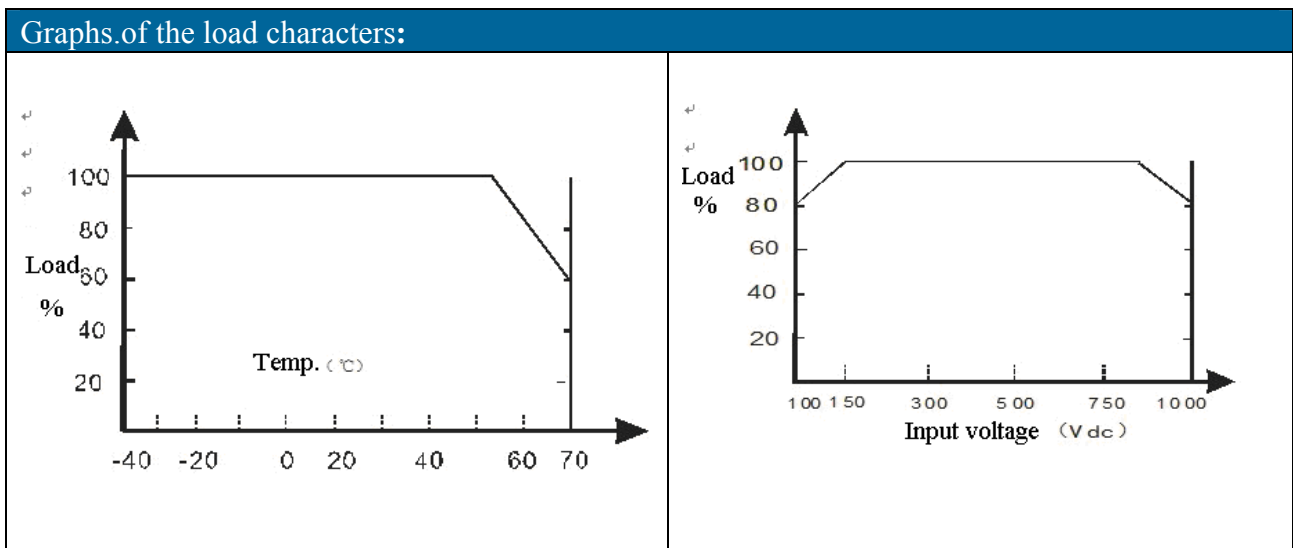
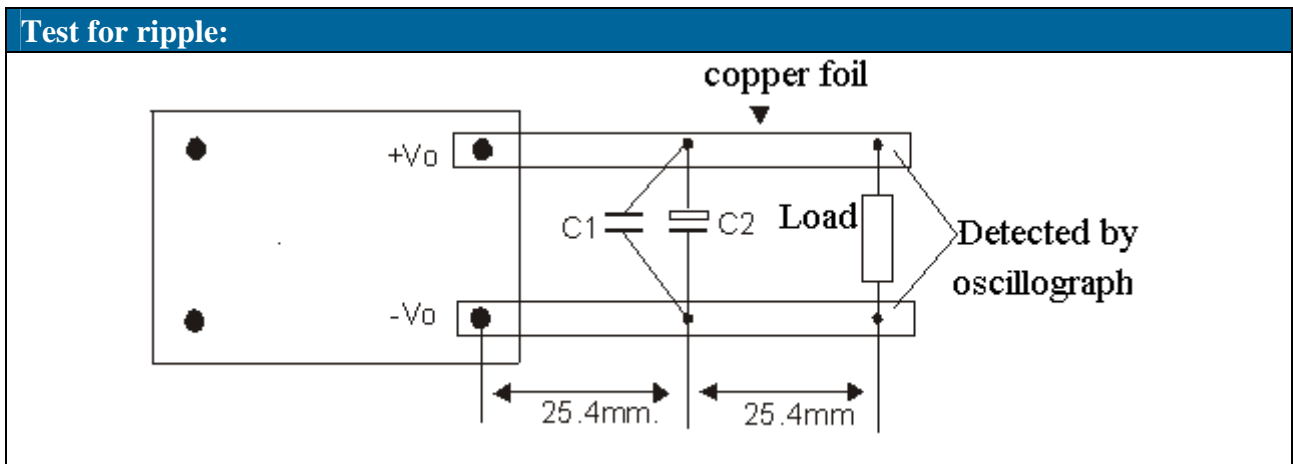
Diagram:	Features:
 <p style="font-weight: bold; margin-top: 10px;">Special for PV, wind system</p>	<ul style="list-style-type: none"> <li>● Input range: 90-1000V DC</li> <li>● With overload and short circuit protection</li> <li>● High efficient</li> <li>● 3000VAC isolation;</li> <li>● Low ripple/noise</li> <li>● Rate power up to 15W;</li> <li>● Wide operation temp. -40~+85°C;</li> </ul>

Part numbers:						
Series	Input voltage (V DC)	Output			Ripple/n oise (mV)	Efficient (TYP)
		Vo (V)	Io (A)	CAP LOAD LIMIT		
CE-NP15-600S05	600(90-1000)	5	3	1000 ohm	100	76
CE-NP15-600S12	600(90-1000)	12	1.25	470 ohm	100	78
CE-NP15-600S24	600(90-1000)	24	0.625	100 ohm	100	80

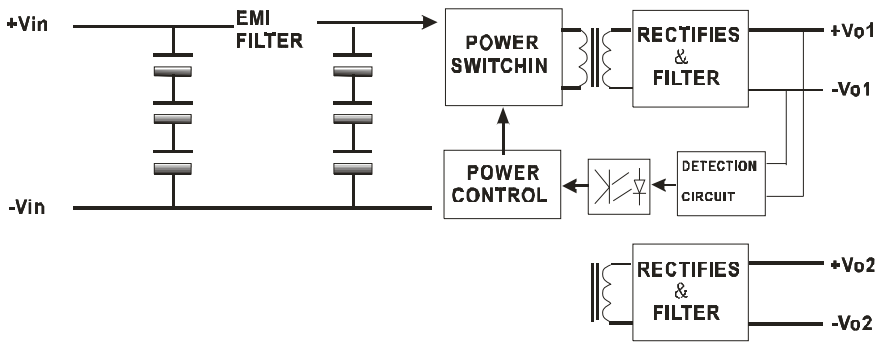
CHARACTER OF INPUT:	
Input filter type	LC Π
Response time	≤10ms

CHARACTER OF OUTPUT:	
ACCURACY	VO ±2.0%
LINEARITY	±1.0%
LOAD CAPACITY	VO±1.0%, 10%~100%
OVER CURRENT	110%, with self recover
DYNAMIC RESPONSE	ΔVo/Δt 200us

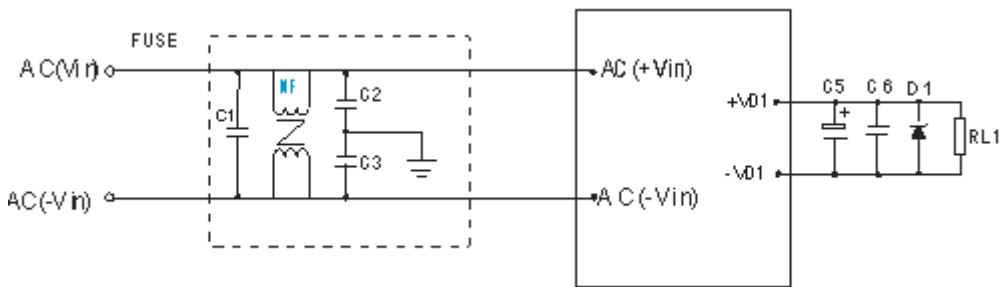
GENERAL SPECIFICATION:		
Switch frequency	100kHz ( typical )	
Temperature	Operation temp.	-40°C ~ +85°C (reference temp.&load relationship graphs)
	Storage temp.	-40°C ~ +85 °C, 10~95% RH
	Drift	0.03%/ (0~50°C)
	Temp. on out case	85°C max
Humidity	85% .RH max	
Shake tolerance	10~500Hz,2G10min./1cycle, 60min.each along X,Y,Z axes	
Isolation	voltage	≥2500V AC
	resistance	500MΩ at 500V DC
MTBF	1000K hrs min. MIL-HDBK-217F(25)	
COOLER	N/A, nature cooling	
Outside Case	PLASITIC	
Weight	70g	
Remark	1. Test condition: TA=25°C, humidity<75%, 600Vdc input with standard load 2. Ripple and noise tested as the following pic. shows	



**Principle:**



**Application:**



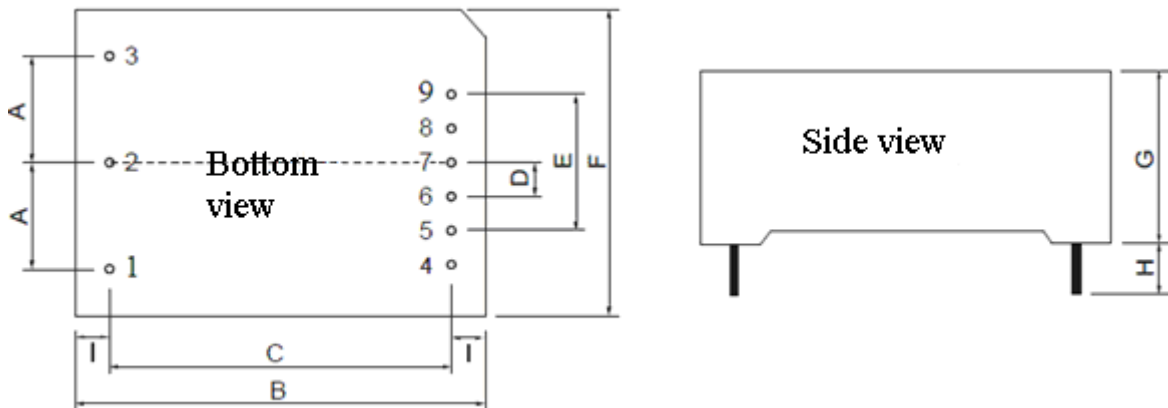
**Note:**

1. High frequency and lower resistance **Capacitor** is recommended for the filter caps C5. D1 is TVS parts for protection the next level circuit
2. The devices in dotted line block only used where there is a higher EMC requirement.

**TYPICAL PARAMETERS FOR THE EXTRA COMPONENTS**

INPUT					OUTPUT		
PART NUMBER	FUSE	C1	C2,C3	C4	C5	C6	D1
NP15-600S05	10Ω/3W	0.1uF/120	0.047uF/12	1uF/1200v	470uF/35V	0.1uF/50V	P6KE6.8A
NP15-600S12		0V	00V		220 uF/35V		P6KE20A
NP15-600S24					100 uF/35V		P6KE36A

**Dimensions:**



<b>A</b>	<b>B</b>	<b>C</b>	<b>D</b>	<b>E</b>	<b>F</b>	<b>G</b>	<b>H</b>	<b>I</b>
20.0	70.0	62.0	5.75	23.0	48	23.5	≥6.0	4.0

Dimensional tolerance:±0.5mm, terminals: 0.1mm

**Definition:**

Part number	1	2	3	4	5	6	7	8	9
NP15-600S05	NO PIN	-Vin	+Vin	NO PIN	-Vo	NO PIN	NO PIN	NO PIN	+Vo
NP15-600S12	NO PIN	-Vin	+Vin	NO PIN	-Vo	NO PIN	NO PIN	NO PIN	+Vo
NP15-600S24	NO PIN	-Vin	+Vin	NO PIN	-Vo	NO PIN	NO PIN	NO PIN	+Vo