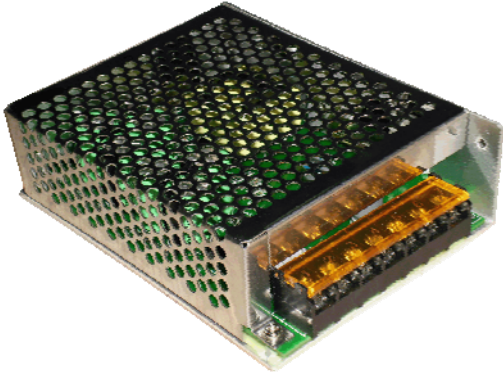


CE-NM20/30/40 Power source

Diagram:	Features:
 <p style="text-align: center; font-weight: bold; margin-top: 10px;">Special for PV, wind system</p>	<ul style="list-style-type: none"> ● Input range: 300-900V DC ● With overload and short circuit protection ● High efficient ● 3000VAC isolation; ● Low ripple/noise ● Rate power up to 35W; ● Wide operation temp. -40~+85°C;

Part number:

Series	Input range (Vdc)	Output			Vo1 ripple/noise (mV)	Efficient (TYP)
		Vo (V)	Io (A)	CAP load limit (ohm)		
NM20-600S05	600(300-900)	5.0	4	1000	100	76
NM20-600S12	600(300-900)	12.1	1.66	470	100	80
NM20-600S24	600(300-900)	24.0	0.833	100	100	81
NM30-600S05	600(300-900)	5.0	6	1000	100	76
NM30-600S12	600(300-900)	12.1	2.5	470	100	81
NM30-600S24	600(300-900)	24.0	1.25	100	100	82
NM40-600S05	600(300-900)	5.0	7	1000	100	76
NM40-600S12	600(300-900)	12.1	3.33	470	100	81
NM40-600S24	600(300-900)	24.0	1.66	100	100	83

CHARATER OF INPUT

Input range	300 ~ 900VDC (220 ~ 640VAC)		
Input Frequency	0 ~ 63Hz		
Input current(typical)	NM20-600SXX	44m A / 600Vdc	75m A / 420VAC
	NM30-600SXX	66m A / 600Vdc	115m A / 420VAC
	NM40-600SXX	83m A / 600Vdc	146m A / 420VAC
input surge current (typical)	30 A / 600VDC	30 A / 420 VAC	
Leakage current(typical)	<1mA at 230VAC/50Hz		
Input filter type	LC Π		
Response time	≤10ms		

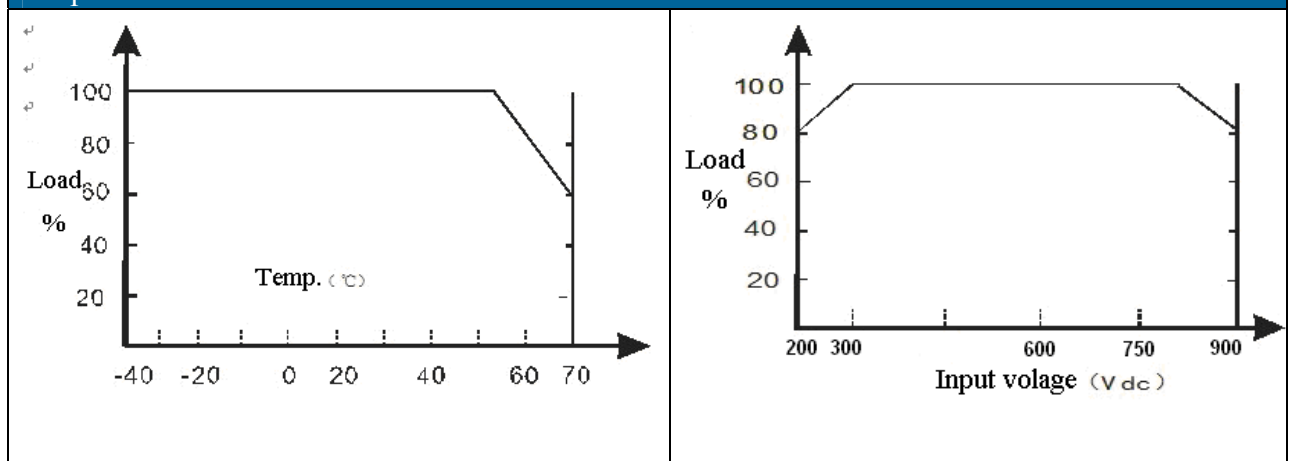
CHARATER OF OUTPUT

ACCURACY	VO \pm 2.0%, @25°C
LINEARITY	\pm 1.0%
LOAD CAPACITY	(VO) \pm 1.0% , 10%~100%
OVERCURRENT PORTECTION	110%, Self recover
RESPONSE	25% of standard load Δ Vo1/ Δ t 200us

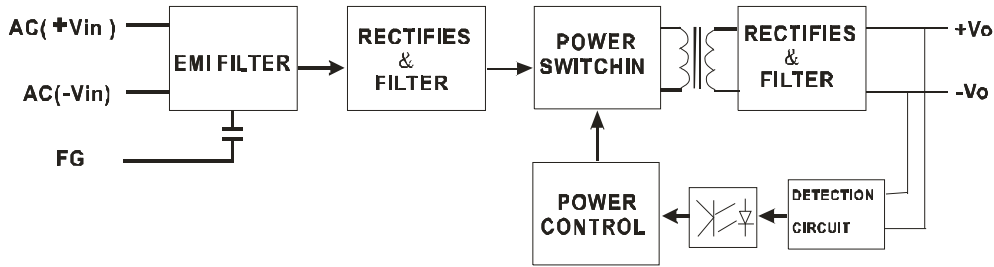
GENERAL SPECIFCIATION

SWITCH FREQUENCY	100kHz (typical)	
Temperature	Operation temp.	-40 ~ +85 °C (reference temp.&load relationship graphs.)
	Storage temp.	-40 ~ +85, 10 ~ 95% RH
	Drift	0.03%/ (0~ 50°C)
	Temp. of outside case	85°C max
Humidity	85% .RH max	
The tolerance of shake	10~500Hz,2G10min./1cycle, 60min.each along X,Y,Z axes	
Isolation	Isolation Voltage	I/P-O/P:1.5KVAC I/P-FG:1.5KVAC O/P-FG:0.5KVAC
	Isolation resistance	I/P-O/P,I/P-FG,O/P-FG:>100M Ohms/500VDC 25°C 70% RH
MTBF	1000K hrs min. MIL-HDBK-217F(25)	
Cool method	Nature	
Dimensions	129*99*38mm (L*W*H)	
Case	Aluminum	
Weight	150g	
Remark	<ol style="list-style-type: none"> 1. Test condition: TA=25°C, humidity<75%, 600Vdc input with standard load 2. Ripple and noise tested with 300mm twist wires, and there are 0.1uF &47uF in parallel connection at the terminals 3. EMS data needs to consider the devices connected with this power source 	

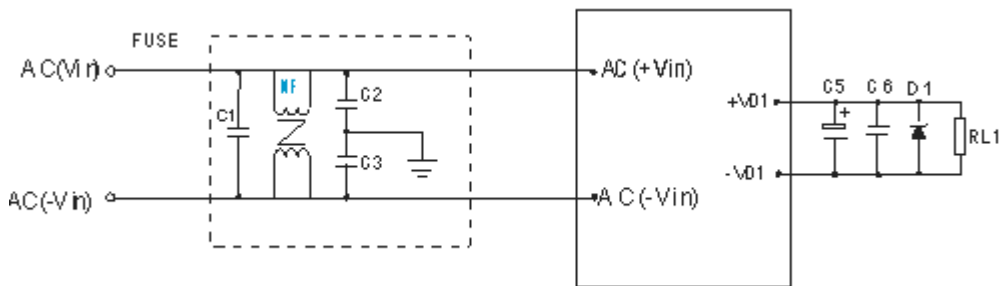
Graphs.of the load charaters



Principle of the product



Typical application



Note:

- 1.High frequency and lower resistance **Capacitors** are recommended for the filter caps C5&C7. D1、D2 are 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 COMPONENTS				OUPUT COMPONENTS		
Part number	FUSE	C1	C2,C3	C5	C6	D1
NMXX-600S05		0.1uF/1200V	0.047uF/1200V	100 uF/35V	0.1uF/50V	P6KE6.8A
NMXX-600S12				470 uF/35V		P6KE20A
NMXX-600S24				220 uF/35V		P6KE36A

Define of the connection terminals

Part number	1	2	3	4	5	6	7
NMXX-600S05	+Vin	-Vin	FG(GND)	-Vo	-Vo	+Vo	+Vo
NMXX-600S12	+Vin	-Vin	FG(GND)	-Vo	-Vo	+Vo	+Vo
NMXX-600S24	+Vin	-Vin	FG(GND)	-Vo	-Vo	+Vo	+Vo

Dimensions

Unit: mm

