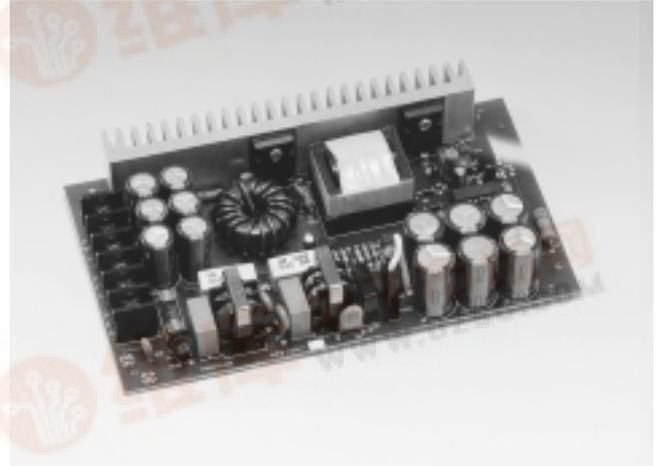


NF 100 Series AC/DC Converters

# NF 100

Total Power	100 Watts
Input Voltages	AC 85~132V / 170~265V
# of Outputs	Single



## SPECIAL FEATURES

- Cost effective unit
- Small, compact footprint
- High efficiency
- Dual input voltage range (selectable)
- 188kHz fixed frequency
- Built-in EMI filter
- Inrush current limit
- Adjustable output voltage
- Output over current protection
- Output over voltage protection
- Thermal shutdown
- Low output ripple & noise
- Isolated output
- 2 Years warranty

## ELECTRICAL SPECIFICATIONS

### INPUT

Voltage	AC85~132V (or DC 110~170V), AC170~264V (or DC220~340V)
Current	2.3A max. @ 110VAC, 1.2A max. @ 220VAC
Frequency	47~440Hz max. (50~60Hz typ.)
Efficiency	79% min.
Inrush current (At cold start)	30A max. @110VAC, 60A max. @220VAC
Leakage current	0.5mA max. @110VAC, 0.75mA max. @220VAC

### OUTPUT

Voltage adj. range	±10% typ.
Ripple and noise	±1% typ.
Line regulation	±1% typ.
Static load regulation	±1% typ.
Dynamic load regulation	±3% typ.
Temperature drift	±1% typ.
Rising time	100ms max.
Holding time	10ms min.

### PROTECTION CIRCUIT

Over current protection	Work at over 105% of rating & recovers automatically
Over voltage protection	115~140% max.
Over temperature protection	140°C typ.

### ELECTRICALLY ISOLATED

Input - Output	AC 3kV, 1 minute, 10mA DC 500V, 100MOhms min.
Input - FG	AC 2kV, 1 minute, 10mA DC 500V, 100MOhms min.
Output - FG	AC 0.5kV, 1 minute, 10mA DC 500V, 70MOhms min.

## ENVIRONMENTAL

Operating temperature range	-10~60°C
Storage temperature range	-20~70°C
Humidity	20~90%RH
Vibration	10~55Hz at 2G 3minutes period
Impact	20G for 11ms, once on each X, Y and Z-axis
Cooling method	Natural air
MTBF	1.1 x 10 <sup>5</sup> hrs
Safety	CB standard design
Noise	Meets FCC class B



## Ordering Information

Input	Output 1	Output 2	Output 3	Maximum Power	Ripple & Noise (mVp-p)	Efficiency typ.	Model number
AC85~132V /170~264V OR DC110~170V/220~340V	5V @20A			100.0W	50	79%	NFS100-5
	12V @8.4A			100.4W	120	80%	NFS100-12
	15V @6.7A			100.5W	150	80%	NFS100-15
	24V @4.2A			100.8W	240	80%	NFS100-24

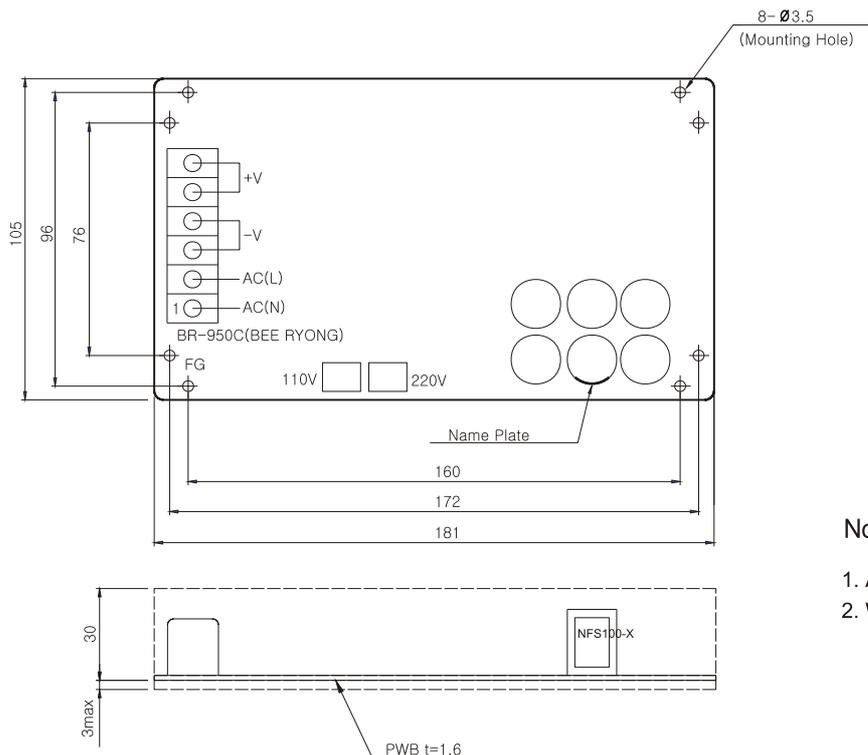
## Mating connectors

Name	I/O Connector
CN 1	BR950C-6P

## Pin assignments

Connector	Pin assi.
CN 1	1. AC(N) 2. AC(L) 3. Gnd 4. Gnd 5. Output 1 6. Output 1

## Dimensions



### Notes

1. All dimensions are mm
2. Weight : 460g or less