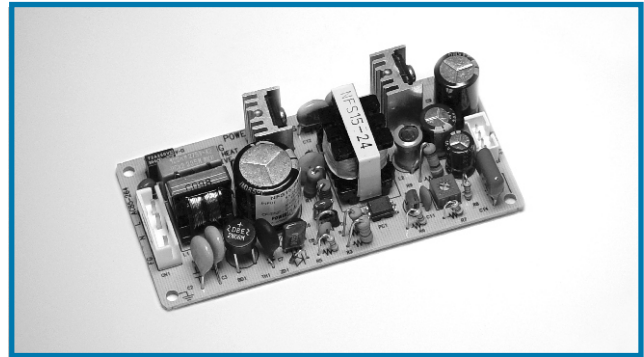


NF 15

NF 15 Series AC/DC Converters

Total power 15 Watts
Input voltages AC85~264V or DC110~340V
#of outputs Single, Dual, Triple output



SPECIAL FEATURES

- Cost effective unit
- Small, compact footprint
- High efficiency
- Universal input
- Built - in EMI filter
- Inrush current limit
- Adjustable output voltage (output1)
- Output over current protection
- Low output ripple & noise
- Isolated output
- 2 Years warranty

ENVIRONMENTAL

- Operating temperature range -10 ~60
- Storage temperature range -20 ~70
- 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 2.0×10^5 hrs
- Safety CB standard design
- Noise Meets FCC class B

ELECTRICAL SPECIFICATIONS

| | |
|--------------------------|---|
| INPUT | <ul style="list-style-type: none"> · Voltage AC85~264V (or DC 110~340V) · Current 0.31A max. @ 110VAC / 0.16A max. @ 220VAC · Frequency 47~440Hz max. (50~60Hz typ.) · Efficiency 70% min. · Inrush current (at cold start) 30A max. @ 110VAC / 60A max. @ 220VAC · Leakage current 0.5mA max. @ 110VAC / 0.75mA max. @ 220VAC |
| OUTPUT | <ul style="list-style-type: none"> · Voltage Set t adj. Range $\pm 10\%$ typ. @ Output1 · Ripple and noise 1% max. · Line regulation $\pm 1\%$ max. @ Output1, 3 / $\pm 2\%$ max. @ Output2 · Load regulation $\pm 1\%$ max. @ Output1, 3 / $\pm 2\%$ max. @ Output2 · Dynamic load regulation $\pm 3\%$ max. @ Output1 · Temperature drift $\pm 1\%$ typ. · Rising time 100ms max. · Holding time 10ms min. |
| PROTECTION CIRCUIT | <ul style="list-style-type: none"> · Over current protection Work at over 105% of rating & recovers automatically |
| ELECTRICALLY ISOLATED | <ul style="list-style-type: none"> · Input - Output AC 3kV, 1minute, 10mA / DC 500V, 100MOhms min. · Input - FG AC 2kV, 1minute, 10mA / DC 500V, 100MOhms min. · Output - FG AC 0.5kV, 1minute, 10mA / DC 500V, 70MOhms min. |

Ordering Information

| Input | Output1 | Output2 | Output3 | Maximum Power | Ripple&Noise max | Efficiency Typ. | Model Number | |
|------------------------------------|---|--|--------------------------|---------------|------------------|-----------------|------------------|-----------------|
| AC 85 ~ 264V or DC 110 ~340V | 5V@3.00A 12V@1.25A 15V@1.00A 24V@0.65A | | | 15.00W | 80mVp-p | 72% | NFS15-5 | |
| | | | | 15.00W | 120mVp-p | 75% | NFS15-12 | |
| | | | | 15.00W | 150mVp-p | 76% | NFS15-15 | |
| | | | | 15.60W | 240mVp-p | 79% | NFS15-24 | |
| | 5V@2.0A 5V@2.0A 5V@2.0A | +12V@0.50A +15V@0.35A +24V@0.20A | | | 16.00W | 80/120mVp-p | 73% | NFD15-52 |
| | | | | | 15.25W | 80/150mVp-p | 73% | NFD15-5F |
| | | | | 14.80W | 80/240mVp-p | 74% | NFD15-54 | |
| 5V@1.5A 5V@1.5A | +12V@0.30A +15V@0.25A | | -12V@0.30A -15V@0.25A | 14.70W | 80/120/120mVp-p | 74% | NFT15-522 | |
| | | | | 15.00W | 80/150/150mVp-p | 74% | NFT15-5FF | |

Mating connectors

| Output type | Name | I/O Connector | Mating Connector | Terminal |
|-------------|------|---------------|------------------|----------|
| Single | CN 1 | YPW500-03 | YPH500-03 | YLT-500 |
| | CN 2 | YW025-04 | YH025-04 | YST-025 |
| Dual | CN 1 | YPW500-03 | YPH500-03 | YLT-500 |
| | CN 2 | YW025-06 | YH025-06 | YST-025 |
| Triple | CN 1 | YPW500-03 | YPH500-03 | YLT-500 |
| | CN 2 | YW025-06 | YH025-06 | YST-025 |

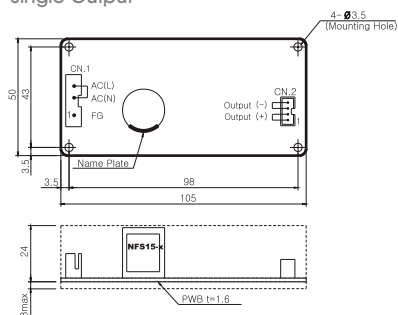
Pin assignments

| Connector | Input |
|-----------------|-------------------------------|
| CN 1 (input) | 1. FG 2. AC(N) 3. AC(L) |

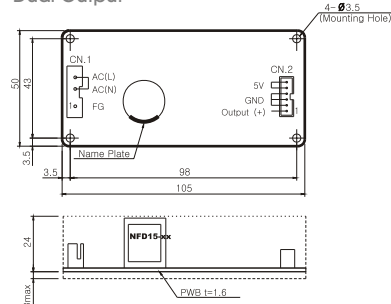
| Connector | Single | Dual | Triple |
|------------------|--|--|--|
| CN 2 (output) | 1. Output1 2. Output1 3. Gnd 4. Gnd | 1. Output2 2. Gnd 3. Gnd 4. Gnd 5. Output1 6. Output1 | 1. Output1 2. Gnd 3. Output2 4. Gnd 5. Gnd 6. Output3 |

Dimensions

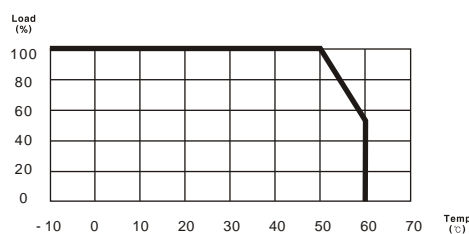
Single Output



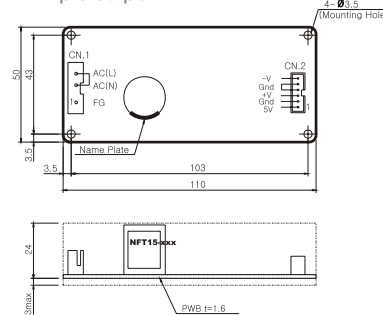
Dual Output



Derating curve



Triple output



NOTES

- All dimensions are mm.
- Weight : 85g or less (single, dual output)
95g or less(triple output)