



- Universal AC input / Full range
- Protections:Short circuit/Over load/Over voltage/Over temperature
- Ultra-miniature size, light weight
- Cooling by free air convection
- Isolation class  ${\rm I\hspace{-.1em}I}$
- UL60601-1/IEC60601-1/EN60601-1 medical safety approved
- No load power consumption<0.5W
- 100% full load burn-in test
- Fixed switching frequency at 67KHz
- High reliability
- 3 years warranty



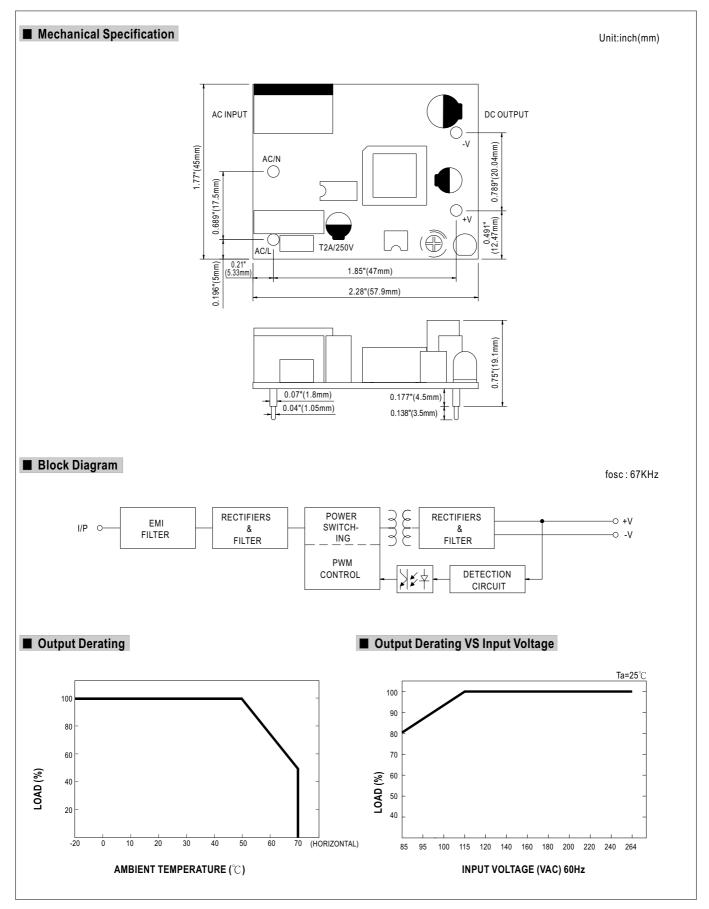






| MODEL       |  | NFM-05-3.3  | NFM-05-5               | NFM-05-12     | NFM-05-15      | NFM-05-24    |  |  |
|-------------|--|---|------------------------|---------------|----------------|--------------|--|--|
|             | DC VOLTAGE   | 3.3V  | 5V                     | 12V           | 15V            | 24V          |  |  |
|             | RATED CURRENT  | 1.25A   | 1A                     | 0.42A         | 0.33A          | 0.23A        |  |  |
|             | CURRENT RANGE  | 0 ~ 1.25A   | 0 ~ 1A                 | 0 ~ 0.42A     | 0 ~ 0.33A      | 0 ~ 0.23A    |  |  |
|             | RATED POWER  | 4.125W  | 5W                     | 5.04W         | 4.95W          | 5.52W        |  |  |
|             | RIPPLE & NOISE (max.) Note.2   | 80mVp-p   | 80mVp-p                | 150mVp-p      | 150mVp-p       | 240mVp-p     |  |  |
| OUTPUT      | VOLTAGE ADJ. RANGE   | 3 ~ 3.63V   | 4.5 ~ 5.5V             | 10.8 ~ 13.2V  | 13.5 ~ 16.5V   | 21.6 ~ 26.4V |  |  |
|             | VOLTAGE TOLERANCE Note.3   | ±2.0%   | ±2.0%                  | ±1.0%         | ±1.0%          | ±1.0%        |  |  |
|             | LINE REGULATION  | ±1.0%   | ±1.0%                  | ±0.5%         | ±0.5%          | ±0.5%        |  |  |
|             | LOAD REGULATION  | ±1.5%   | ±1.5%                  | ±0.5%         | ±0.5%          | ±0.5%        |  |  |
|             | SETUP, RISE TIME   | 1000ms, 20ms/230VAC 1000ms, 20ms/115VAC at full load  |                        |               |                |              |  |  |
|             | HOLD TIME (Typ.)   | 100ms/230VAC 20ms/115VAC at full load   |                        |               |                |              |  |  |
|             | VOLTAGE RANGE  | 85 ~ 264VAC 120 ~ 370VDC  |                        |               |                |              |  |  |
|             | FREQUENCY RANGE  | 47 ~ 440Hz  |                        |               |                |              |  |  |
| INPUT       | EFFICIENCY (Typ.)  | 67%   | 71%                    | 73%           | 76%            | 76%          |  |  |
|             | AC CURRENT (Typ.)  | 0.12A/115VAC 0.08A/230VAC   |                        |               |                |              |  |  |
|             | INRUSH CURRENT (Typ.)  | COLD START 25A/115VAC 45A/230VAC  |                        |               |                |              |  |  |
|             |  | Above 105% rated output power   |                        |               |                |              |  |  |
|             | OVER LOAD  | Protection type: Hiccup mode, recovers automatically after fault condition is removed                       |                        |               |                |              |  |  |
|             |  | 3.8 ~ 4.95V   | 5.75 ~ 6.75V           | 13.8 ~ 16.2V  | 17.25 ~ 20.25V | 27.6 ~ 32.4V |  |  |
| PROTECTION  | OVER VOLTAGE   | Protection type: Shut off   |                        |               |                |              |  |  |
|             | OVED TEMPEDATURE   | Tj 145°C typically (U1) Detect on main control IC   |                        |               |                |              |  |  |
|             | OVER TEMPERATURE   | Protection type: Shut down o/p voltage, recovers automatically after temperature goes down                  |                        |               |                |              |  |  |
|             | WORKING TEMP.  | -20 ~ +70°C (Refer to output load derating curve)   |                        |               |                |              |  |  |
|             | WORKING HUMIDITY   | 20 ~ 90% RH non-condensing  |                        |               |                |              |  |  |
| ENVIRONMENT | STORAGE TEMP., HUMIDITY  | -40 ~ +85°C, 10 ~ 95% RH  |                        |               |                |              |  |  |
|             | TEMP. COEFFICIENT  | ±0.03%/°C (0~50°C)  |                        |               |                |              |  |  |
|             | VIBRATION  | 10 ~ 500Hz, 2G 10min./1cycle, Period for 60min.each along X, Y, Z axes                                      |                        |               |                |              |  |  |
|             | SAFETY STANDARDS   | UL60601-1,TUV EN60601-1 Approved  |                        |               |                |              |  |  |
|             | WITHSTAND VOLTAGE  | I/P-O/P:4KVAC   |                        |               |                |              |  |  |
| SAFETY &    | ISOLATION RESISTANCE   | I/P-O/P:100M Ohms/500VDC  |                        |               |                |              |  |  |
| EMC         | EMI CONDUCTION & RADIATION   | Compliance to EN55011(  | CISPR11),EN55022 (CISF | PR22) Class B |                |              |  |  |
| (Note 4)    | HARMONIC CURRENT   | Compliance to EN61000-3-2,-3  |                        |               |                |              |  |  |
|             | EMS IMMUNITY   | Compliance to EN61000-4-2,3,4,5,6,8,11; ENV50204, EN55024, EN60601-1-2, EN61204-3 Medical level, criteria A |                        |               |                |              |  |  |
| OTHERS      | MTBF   | 738.7Khrs min. MIL-HDBK-217F ( $25^{\circ}\mathbb{C}$ )   |                        |               |                |              |  |  |
|             | DIMENSION  | 58*45*19.1mm (L*W*H)  |                        |               |                |              |  |  |
|             | PACKING  | 0.03Kg; 120pcs/4.6Kg/0.   |                        |               |                |              |  |  |
| NOTE        | <ol> <li>All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature.</li> <li>Ripple &amp; noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf &amp; 47uf parallel capacitor.</li> <li>Tolerance: includes set up tolerance, line regulation and load regulation.</li> <li>The power supply is considered a component which will be installed into a final equipment. The final equipment must be re-confirmed that it still meets EMC directives.</li> </ol> |   |                        |               |                |              |  |  |









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- 100% full load burn-in test
- Fixed switching frequency at 67KHz
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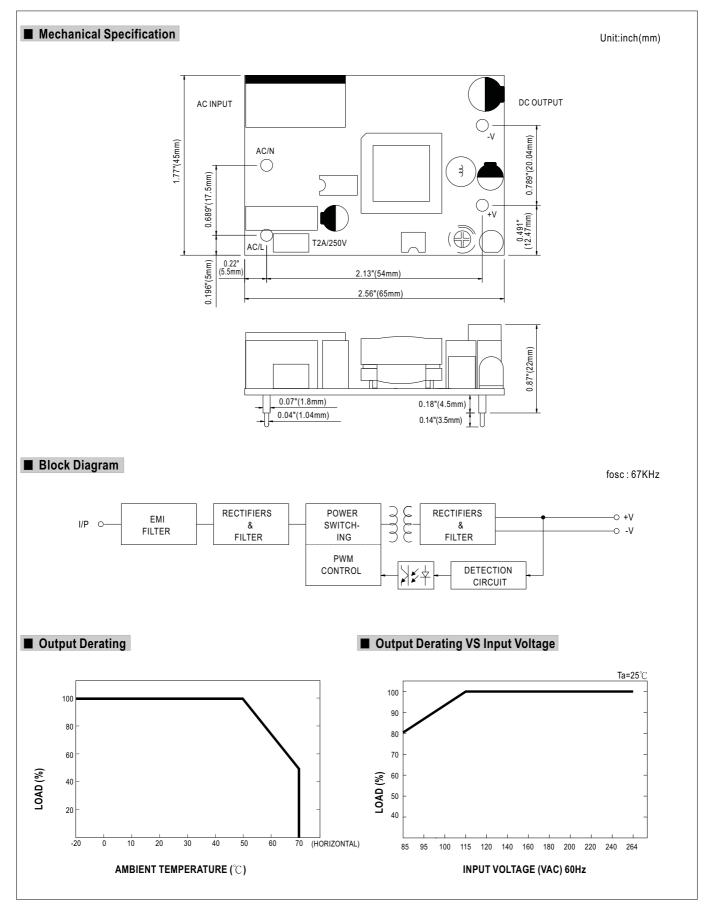






| MODEL           |  | NFM-10-3.3  | NFM-10-5     | NFM-10-12    | NFM-10-15      | NFM-10-24    |  |  |
|-----------------|--|---|--------------|--------------|----------------|--------------|--|--|
| OUTPUT          | DC VOLTAGE   | 3.3V  | 5V           | 12V          | 15V            | 24V          |  |  |
|                 | RATED CURRENT  | 2.5A  | 2A           | 0.85A        | 0.67A          | 0.42A        |  |  |
|                 | CURRENT RANGE  | 0 ~ 2.5A  | 0 ~ 2A       | 0 ~ 0.85A    | 0 ~ 0.67A      | 0 ~ 0.42A    |  |  |
|                 | RATED POWER  | 8.25W   | 10W          | 10.2W        | 10.05W         | 10.08W       |  |  |
|                 | RIPPLE & NOISE (max.) Note.2   | 80mVp-p   | 80mVp-p      | 150mVp-p     | 150mVp-p       | 240mVp-p     |  |  |
|                 | VOLTAGE ADJ. RANGE   | 3 ~ 3.63V   | 4.5 ~ 5.5V   | 10.8 ~ 13.2V | 13.5 ~ 16.5V   | 21.6 ~ 26.4V |  |  |
|                 | VOLTAGE TOLERANCE Note.3   | ±2.0%   | ±2.0%        | ±1.0%        | ±1.0%          | ±1.0%        |  |  |
|                 | LINE REGULATION  | ±1.0%   | ±1.0%        | ±0.5%        | ±0.5%          | ±0.5%        |  |  |
|                 | LOAD REGULATION  | ±1.0%   | ±1.0%        | ±0.5%        | ±0.5%          | ±0.5%        |  |  |
|                 | SETUP, RISE TIME   | 1000ms, 20ms/230VAC 1000ms, 20ms/115VAC at full load  |              |              |                |              |  |  |
|                 | HOLD TIME (Typ.)   | 100ms/230VAC 20ms/115VAC at full load   |              |              |                |              |  |  |
|                 | VOLTAGE RANGE  | 85 ~ 264VAC 120 ~ 370VDC  |              |              |                |              |  |  |
|                 | FREQUENCY RANGE  | 47 ~ 440Hz  |              |              |                |              |  |  |
| INPUT           | EFFICIENCY (Typ.)  | 67%   | 74%          | 79%          | 80%            | 79%          |  |  |
|                 | AC CURRENT (Typ.)  | 0.25A/115VAC 0.15   | A/230VAC     |              |                |              |  |  |
|                 | INRUSH CURRENT (Typ.)  | COLD START 25A/115VAC 45A/230VAC  |              |              |                |              |  |  |
|                 | OVER LOAD  | Above 105% rated output power   |              |              |                |              |  |  |
|                 |  | Protection type : Hiccup mode, recovers automatically after fault condition is removed  |              |              |                |              |  |  |
|                 | OVER VOLTAGE   | 3.8 ~ 4.95V   | 5.75 ~ 6.75V | 13.8 ~ 16.2V | 17.25 ~ 20.25V | 27.6 ~ 32.4V |  |  |
| PROTECTION      |  | Protection type: Shut off   |              |              |                |              |  |  |
|                 | OVER TEMPERATURE   | Tj 140°C typically (U1) Detect on main control IC   |              |              |                |              |  |  |
|                 |  | Protection type: Shut down o/p voltage, recovers automatically after temperature goes down  |              |              |                |              |  |  |
|                 | WORKING TEMP.  | -20 ~ +70°C (Refer to output load derating curve)   |              |              |                |              |  |  |
|                 | WORKING HUMIDITY   | 20 ~ 90% RH non-condensing  |              |              |                |              |  |  |
| ENVIRONMENT     | STORAGE TEMP., HUMIDITY  | -40 ~ +85°C, 10 ~ 95% RH  |              |              |                |              |  |  |
|                 | TEMP. COEFFICIENT  | ±0.03%/°C (0~50°C)  |              |              |                |              |  |  |
|                 | VIBRATION  | 10 ~ 500Hz, 2G 10min./1cycle, Period for 60min.each along X, Y, Z axes  |              |              |                |              |  |  |
|                 | SAFETY STANDARDS   | UL60601-1,TUV EN60601-1 Approved  |              |              |                |              |  |  |
| SAFETY &        | WITHSTAND VOLTAGE  | I/P-O/P:4KVAC   |              |              |                |              |  |  |
|                 | ISOLATION RESISTANCE   | TANCE I/P-O/P:100M Ohms/500VDC  |              |              |                |              |  |  |
| EMC<br>(Note 4) | EMI CONDUCTION & RADIATION   | Compliance to EN55011(CISPR11),EN55022 (CISPR22) Class B  |              |              |                |              |  |  |
| , ,             | HARMONIC CURRENT   | Compliance to EN61000-3-2,-3  |              |              |                |              |  |  |
|                 | EMS IMMUNITY Compliance to EN61000-4-2,3,4,5,6,8,11; ENV50204, EN55024, EN60601-1-2, EN61204-3 Medic |   |              |              |                |              |  |  |
|                 | MTBF   | 723.2Khrs min. MIL-HDBK-217F (25°ℂ)   |              |              |                |              |  |  |
| OTHERS          | DIMENSION  | 65*45*22mm (L*W*H)  |              |              |                |              |  |  |
|                 | PACKING  | 0.045Kg; 120pcs/6.4Kg/0.97CUFT  |              |              |                |              |  |  |
| NOTE            | <ol> <li>Ripple &amp; noise are measure</li> <li>Tolerance : includes set up</li> </ol>              | <ul> <li>All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25℃ of ambient temperature.</li> <li>Ripple &amp; noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf &amp; 47uf parallel capacitor.</li> <li>Tolerance: includes set up tolerance, line regulation and load regulation.</li> <li>The power supply is considered a component which will be installed into a final equipment. The final equipment must be re-confirmed that it still meets EMC directives.</li> </ul> |              |              |                |              |  |  |









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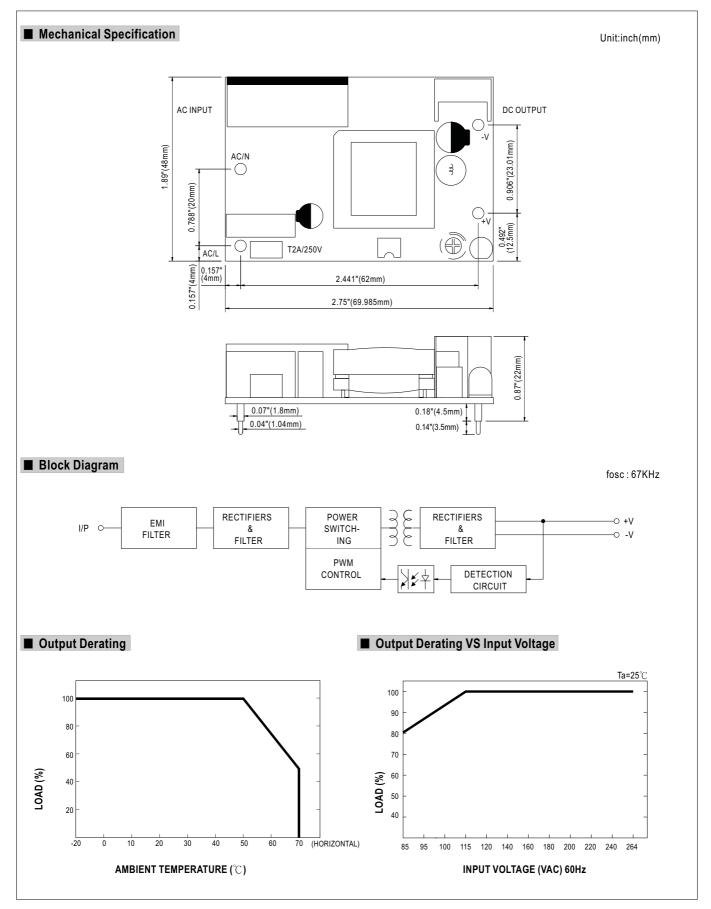






| MODEL           |   | NFM-15-3.3  | NFM-15-5     | NFM-15-12    | NFM-15-15      | NFM-15-24    |  |  |
|-----------------|---|---|--------------|--------------|----------------|--------------|--|--|
| ОИТРИТ          | DC VOLTAGE  | 3.3V  | 5V           | 12V          | 15V            | 24V          |  |  |
|                 | RATED CURRENT   | 3.5A  | 3A           | 1.25A        | 1A             | 0.63A        |  |  |
|                 | CURRENT RANGE   | 0 ~ 3.5A  | 0 ~ 3A       | 0 ~ 1.25A    | 0 ~ 1A         | 0 ~ 0.63A    |  |  |
|                 | RATED POWER   | 11.55W  | 15W          | 15W          | 15W            | 15.12W       |  |  |
|                 | RIPPLE & NOISE (max.) Note.2  | 80mVp-p   | 80mVp-p      | 150mVp-p     | 150mVp-p       | 240mVp-p     |  |  |
|                 | VOLTAGE ADJ. RANGE  | 3 ~ 3.63V   | 4.5 ~ 5.5V   | 10.8 ~ 13.2V | 13.5 ~ 16.5V   | 21.6 ~ 26.4V |  |  |
|                 | VOLTAGE TOLERANCE Note.3  | ±2.0%   | ±2.0%        | ±1.0%        | ±1.0%          | ±1.0%        |  |  |
|                 | LINE REGULATION   | ±1.0%   | ±1.0%        | ±0.5%        | ±0.5%          | ±0.5%        |  |  |
|                 | LOAD REGULATION   | ±1.0%   | ±1.0%        | ±0.5%        | ±0.5%          | ±0.5%        |  |  |
|                 | SETUP, RISE TIME  | 1000ms, 20ms/230VAC 1000ms, 20ms/115VAC at full load  |              |              |                |              |  |  |
|                 | HOLD TIME (Typ.)  | 100ms/230VAC 20ms/115VAC at full load   |              |              |                |              |  |  |
|                 | VOLTAGE RANGE   | 85 ~ 264VAC 120 ~ 370VDC  |              |              |                |              |  |  |
|                 | FREQUENCY RANGE   | 47 ~ 440Hz  |              |              |                |              |  |  |
| INPUT           | EFFICIENCY (Typ.)   | 73%   | 76%          | 78%          | 79%            | 81%          |  |  |
|                 | AC CURRENT (Typ.)   | 0.35A/115VAC 0.2A   | /230VAC      |              |                | '            |  |  |
|                 | INRUSH CURRENT (Typ.)   | COLD START 30A/115VAC 50A/230VAC  |              |              |                |              |  |  |
|                 | ( ) (   | Above 105% rated output power   |              |              |                |              |  |  |
|                 | OVER LOAD   | Protection type: Hiccup mode, recovers automatically after fault condition is removed   |              |              |                |              |  |  |
|                 | OVER VOLTAGE  | 3.8 ~ 4.95V   | 5.75 ~ 6.75V | 13.8 ~ 16.2V | 17.25 ~ 20.25V | 27.6 ~ 32.4V |  |  |
| PROTECTION      |   | Protection type : Shut off  |              |              |                |              |  |  |
|                 | OVER TEMPERATURE  | Tj 140℃ typically (U1) Detect on main control IC  |              |              |                |              |  |  |
|                 |   | Protection type: Shut down o/p voltage, recovers automatically after temperature goes down  |              |              |                |              |  |  |
|                 | WORKING TEMP.   | -20 ~ +70°C (Refer to output load derating curve)   |              |              |                |              |  |  |
| ENVIRONMENT     | WORKING HUMIDITY  | 20 ~ 90% RH non-condensing  |              |              |                |              |  |  |
|                 | STORAGE TEMP., HUMIDITY   | -40 ~ +85°C, 10 ~ 95% RH  |              |              |                |              |  |  |
|                 | TEMP. COEFFICIENT   | ±0.03%/°C (0~50°C)  |              |              |                |              |  |  |
|                 | VIBRATION   | 10 ~ 500Hz, 2G 10min./1cycle, Period for 60min.each along X, Y, Z axes  |              |              |                |              |  |  |
|                 | SAFETY STANDARDS  | UL60601-1,TUV EN60601-1 Approved  |              |              |                |              |  |  |
| 045571/0        | WITHSTAND VOLTAGE   | I/P-O/P:4KVAC   |              |              |                |              |  |  |
| SAFETY &        | ISOLATION RESISTANCE  | I/P-O/P:100M Ohms/500   | VDC          |              |                |              |  |  |
| EMC<br>(Note 4) | EMI CONDUCTION & RADIATION  |   |              |              |                |              |  |  |
| (11010 4)       | HARMONIC CURRENT  | Compliance to EN61000-3-2,-3  |              |              |                |              |  |  |
|                 | EMS IMMUNITY  | Compliance to EN61000-4-2,3,4,5,6,8,11; ENV50204, EN55024, EN60601-1-2, EN61204-3 Medical level, criteria A   |              |              |                |              |  |  |
| OTHERS          | MTBF  | 499.7Khrs min. MIL-HDBK-217F (25°C)   |              |              |                |              |  |  |
|                 | DIMENSION   | 70*48*22mm (L*W*H)  |              |              |                |              |  |  |
|                 | PACKING   | 0.065Kg; 120pcs/8.8Kg/0.97CUFT  |              |              |                |              |  |  |
| NOTE            | <ol> <li>Ripple &amp; noise are measure</li> <li>Tolerance : includes set up</li> </ol> | Il parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature.  lipple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor.  olerance: includes set up tolerance, line regulation and load regulation.  he power supply is considered a component which will be installed into a final equipment. The final equipment must be re-confirmed that it still meets  MC directives. |              |              |                |              |  |  |









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| MODEL           |  | NFM-20-3.3   | NFM-20-5     | NFM-20-12    | NFM-20-15      | NFM-20-24    |  |  |  |
|-----------------|--|--|--------------|--------------|----------------|--------------|--|--|--|
|                 | DC VOLTAGE   | 3.3V   | 5V           | 12V          | 15V            | 24V          |  |  |  |
| ОИТРИТ          | RATED CURRENT  | 4.5A   | 4.4A         | 1.8A         | 1.4A           | 0.92A        |  |  |  |
|                 | CURRENT RANGE  | 0 ~ 4.5A   | 0 ~ 4.4A     | 0 ~ 1.8A     | 0 ~ 1.4A       | 0 ~ 0.92A    |  |  |  |
|                 | RATED POWER  | 14.85W   | 22W          | 21.6W        | 21W            | 22.08W       |  |  |  |
|                 | RIPPLE & NOISE (max.) Note.2   |  | 80mVp-p      | 150mVp-p     | 150mVp-p       | 240mVp-p     |  |  |  |
|                 | VOLTAGE ADJ. RANGE   | 3.1 ~ 3.6V   | 4.5 ~ 5.4V   | 10.8 ~ 13.2V | 13.5 ~ 16.5V   | 21.6 ~ 26.4V |  |  |  |
|                 |  | ±2.0%  | ±2.0%        | ±1.0%        | ±1.0%          | ±1.0%        |  |  |  |
|                 | LINE REGULATION  | ±1.0%  | ±1.0%        | ±0.5%        | ±0.5%          | ±0.5%        |  |  |  |
|                 | LOAD REGULATION  | ±1.5%  | ±1.5%        | ±0.5%        | ±0.5%          | ±0.5%        |  |  |  |
|                 | SETUP, RISE TIME   | 500ms, 20ms/230VAC 500ms, 20ms/115VAC at full load   |              |              |                |              |  |  |  |
|                 | HOLD TIME (Typ.)   | 50ms/230VAC 16ms/115VAC at full load   |              |              |                |              |  |  |  |
|                 | VOLTAGE RANGE  | 85 ~ 264VAC 120 ~ 370VDC   |              |              |                |              |  |  |  |
|                 | FREQUENCY RANGE  | 47 ~ 440Hz   |              |              |                |              |  |  |  |
|                 | EFFICIENCY (Typ.)  | 71%  | 75%          | 81%          | 83%            | 84%          |  |  |  |
| INPUT           | AC CURRENT (Typ.)  |  | 230VAC       | 0.70         | 337            | 10.10        |  |  |  |
|                 | INRUSH CURRENT (Typ.)  | COLD START 30A/115VAC 65A/230VAC   |              |              |                |              |  |  |  |
|                 | LEAKAGE CURRENT  | <200uA/240VAC 65A/250VAC <200uA/240VAC   |              |              |                |              |  |  |  |
|                 |  | Above 105% rated output power  |              |              |                |              |  |  |  |
|                 | OVER LOAD  | Protection type: Hiccup mode, recovers automatically after fault condition is removed  |              |              |                |              |  |  |  |
|                 |  | 3.8 ~ 4.46V  | 5.75 ~ 6.75V | 13.8 ~ 16.2V | 17.25 ~ 20.25V | 27.6 ~ 32.4V |  |  |  |
| PROTECTION      | OVER VOLTAGE   | Protection type : Shut off   |              |              |                |              |  |  |  |
|                 |  | Tj 160°C typically (U1) Detect on main control IC  |              |              |                |              |  |  |  |
|                 | OVER TEMPERATURE Note.5  | Protection type: Shut down o/p voltage, recovers automatically after temperature goes down   |              |              |                |              |  |  |  |
|                 | WORKING TEMP.  | -20 ~ +65°C (Refer to output load derating curve)  |              |              |                |              |  |  |  |
|                 | WORKING HUMIDITY   | 20 ~ 90% RH non-condensing   |              |              |                |              |  |  |  |
| ENVIRONMENT     | STORAGE TEMP., HUMIDITY  | -40 ~ +85°C, 10 ~ 95% RH   |              |              |                |              |  |  |  |
| LITTINOMILLIT   | TEMP. COEFFICIENT  | ±0.03%°C (0~50°C)  |              |              |                |              |  |  |  |
|                 | VIBRATION  | 10 ~ 500Hz, 2G 10min./1cycle, Period for 60min.each along X, Y, Z axes   |              |              |                |              |  |  |  |
|                 | SAFETY STANDARDS   | UL60601-1, TUV EN60601-1 Approved  |              |              |                |              |  |  |  |
|                 | WITHSTAND VOLTAGE  | I/P-O/P:4KVAC I/P-FG:1.5KVAC O/P-FG:1.5KVAC  |              |              |                |              |  |  |  |
| SAFETY &        | ISOLATION RESISTANCE   | I/P-O/P, I/P-FG, O/P-FG:100M Ohms/500VDC   |              |              |                |              |  |  |  |
| EMC<br>(Note 4) | EMI CONDUCTION & RADIATION   | Compliance to EN55011(CISPR11),EN55022 (CISPR22) Class B   |              |              |                |              |  |  |  |
| (NOIE 4)        | HARMONIC CURRENT   | Compliance to EN61000-3-2,-3   |              |              |                |              |  |  |  |
|                 | EMS IMMUNITY   | Compliance to EN61000-4-2,3,4,5,6,8,11; ENV50204, EN55024, EN60601-1-2, EN61204-3 Medical level, criteria A  |              |              |                |              |  |  |  |
| OTHERS          | MTBF   | 487.8Khrs min. MIL-HDBK-217F (25°C)  |              |              |                |              |  |  |  |
|                 | DIMENSION  | 89*51*19.3mm (L*W*H)   |              |              |                |              |  |  |  |
|                 | PACKING  | 0.09Kg; 105pcs/10.5Kg/0  | .97CUFT      |              |                |              |  |  |  |
| NOTE            | All parameters NOT special     Ripple & noise are measure     Tolerance : includes set up     The power supply is consided EMC directives. | pecially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature.  assured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor.  et up tolerance, line regulation and load regulation.  onsidered a component which will be installed into a final equipment. The final equipment must be re-confirmed that it still meets  protection (OTP) is the built-in function of the control IC (U1). The activating level described above is based on the specification nufacturer. |              |              |                |              |  |  |  |



