

35W Dual Output Switching Power Supply

NED-35 series



■ Features :

- Universal AC input / Full range
- Protections: Short circuit / Overload / Over voltage
- · Cooling by free air convection
- 100% full load burn-in test
- · 2 years warranty

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SPECIFICATION

	NED-35A		NED-35B	
OUTPUT NUMBER	CH1	CH2	CH1	CH2
DC VOLTAGE	5V	12V	5V	24V
RATED CURRENT	4A	1A	2.2A	1A
CURRENT RANGE Note.6	0.5 ~ 5A	0.1 ~ 1.5A	0.5 ~ 4A	0.2 ~ 1.3A
RATED POWER	32W		35W	M M As
RIPPLE & NOISE (max.) Note.2	80mVp-p	120mVp-p	80mVp-p	200mVp-p
VOLTAGE ADJ. RANGE	CH1: 4.75 ~ 5.5V		CH1: 4.75 ~ 5.5V	
VOLTAGE TOLERANCE Note.3	±2.0%	±6.0%	±2.0%	±6.0%
LINE REGULATION Note.4	±0.5%	±1.0%	±0.5%	±1.0%
LOAD REGULATION Note.5	±1.5%	±3.0%	±1.5%	±3.0%
SETUP, RISE TIME	500ms, 30ms/230VAC	1200ms, 30ms/115VAC at	full load	'
HOLD UP TIME (Typ.)	50ms/230VAC 10ms/115VAC at full load			
VOLTAGE RANGE	85 ~ 264VAC 120 ~ 370VDC			
FREQUENCY RANGE	47 ~ 63Hz			471114
EFFICIENCY (Typ.)	78%		81%	MODELLI
AC CURRENT (Typ.)	0.75A/115VAC 0.5 A	V/230VAC		075
INRUSH CURRENT (Typ.)	COLD START 45A			MAN W.
LEAKAGE CURRENT	<2mA / 240VAC			
OVERLOAD	110 ~ 150% rated output power			
	Protection type: Hiccup mode, recovers automatically after fault condition is removed			
PROTECTION OVER VOLTAGE	CH1: 5.75 ~ 6.75V			
	Protection type: Shut down o/p voltage, re-power on to recover			
WORKING TEMP.				
	20 ~ 90% RH non-condensing			
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· · · · · · · · · · · · · · · · · · ·	±0.03%/°C (0~45°C)			
VIBRATION	10 ~ 500Hz, 2G 10min./1cycle, period for 60min. each along X, Y, Z axes			
SAFETY STANDARDS		• • •		0750
WITHSTAND VOLTAGE	I/P-O/P:3KVAC 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			
EMI CONDUCTION & RADIATION	Compliance to 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, EN61000-6-1 Light industry level, criteria A			
MTBF	402.7Khrs min. MIL-HDBK-217F (25°C)			
	99*97*36mm (L*W*H)			
DIMENSION	99*97*36mm (L*W*H)			
	DC VOLTAGE RATED CURRENT CURRENT RANGE Note.6 RATED POWER RIPPLE & NOISE (max.) Note.2 VOLTAGE ADJ. RANGE VOLTAGE TOLERANCE Note.3 LINE REGULATION Note.5 SETUP, RISE TIME HOLD UP TIME (Typ.) VOLTAGE RANGE FREQUENCY RANGE EFFICIENCY (Typ.) AC CURRENT (Typ.) INRUSH CURRENT (Typ.) LEAKAGE CURRENT OVERLOAD OVER VOLTAGE WORKING TEMP. WORKING HUMIDITY STORAGE TEMP., HUMIDITY TEMP. COEFFICIENT VIBRATION SAFETY STANDARDS WITHSTAND VOLTAGE EMI CONDUCTION & RADIATION HARMONIC CURRENT EMS IMMUNITY	OUTPUT NUMBER CH1 DC VOLTAGE 5V RATED CURRENT 4A CURRENT RANGE Note.6 0.5 ~ 5A RATED POWER 32W RIPPLE & NOISE (max.) Note.2 80mVp-p VOLTAGE ADJ. RANGE CH1: 4.75 ~ 5.5V VOLTAGE TOLERANCE Note.3 ±2.0% LINE REGULATION Note.5 ±1.5% SETUP, RISE TIME 500ms, 30ms/230VAC HOLD UP TIME (Typ.) 50ms/230VAC 10ms/230VAC VOLTAGE RANGE 47 ~ 63Hz FFEQUENCY RANGE 47 ~ 63Hz EFFICIENCY (Typ.) 0.75A/115VAC 0.5A INRUSH CURRENT (Typ.) COLD START 45A LEAKAGE CURRENT <2mA / 240VAC	OUTPUT NUMBER CH1 CH2 DC VOLTAGE 5V 12V RATED CURRENT 4A 1A CURRENT RANGE Note.6 0.5 ~ 5A 0.1 ~ 1.5A RATED POWER 32W RIPPLE & NOISE (max.) Note.2 80mVp-p 120mVp-p VOLTAGE ADJ. RANGE CH1: 4.75 ~ 5.5V VOLTAGE TOLERANCE Note.3 ±2.0% ±6.0% LINE REGULATION Note.4 ±0.5% ±1.0% LOAD REGULATION Note.5 ±1.5% ±3.0% SETUP, RISE TIME 500ms, 30ms/230VAC 120 ms, 30ms/115VAC at full load VOLTAGE RANGE 85 ~ 264VAC 120 ~ 370VDC FREQUENCY RANGE 47 ~ 63Hz EFFICIENCY (Typ.) 78% AC CURRENT (Typ.) 0.75A/115VAC 0.5 A/230VAC INRUSH CURRENT (Typ.) 0.75A/240VAC OVERLOAD 110 ~ 150% rated output power Protection type : Hiccup mode, recovers automatically CH1: 5.75 ~ 6.75V POVERLOAD 20 ~ 60°C (Refer to output load derating curve) WORKING TEMP. 20 ~ 60°C (Refer	OUTPUT NUMBER CH1 CH2 CH1 DC VOLTAGE 5V 12V 5V RATED CURRENT 4A 1A 2.2A CURRENT RANGE Note.6 0.5 ~ 5A 0.1 ~ 1.5A 0.5 ~ 4A RATED POWER 32W 35W 35W RATED POWER 32W \$35W \$35W RIPLE & NOISE (max.) Note.2 80mVp-p \$20mVp-p \$80mVp-p VOLTAGE ADJ. RANGE CH1: 4.75 ~ 5.5V CH1: 4.75 ~ 5.5V VOLTAGE TOLERANCE Note.3 ±2.0% ±6.0% ±2.0% LINE REGULATION Note.4 ±0.5% ±1.0% ±0.5% LIOAD REGULATION Note.4 ±1.5% ±3.0% ±1.5% SETUP, RISE TIME 50ms, 30ms/230VAC 1200ms, 30ms/115VAC at full load ±5.5% VOLTAGE RANGE 85 ~ 264VAC 120 ~ 370VDC \$85 FREQUENCY RANGE 47 ~ 63H2 \$85 ~ 264VAC 120 ~ 370VDC INRUSH CURRENT (Typ.) 0.75A/115VAC 0.5 A/230VAC \$816 OVER VOLTAGE 20m / 24 / 240VAC

NOTE

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- All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature.
 Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor.
- 3. Tolerance: includes set up tolerance, line regulation and load regulation.
- 4. Line regulation is measured from low line to high line at rated load.
- 5. Load regulation is measured from 20% to 100% rated load, and other output at 60% rated load.
 6. Each output can work within current range. But total output power can't exceed rated output power.
 7. 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.



