

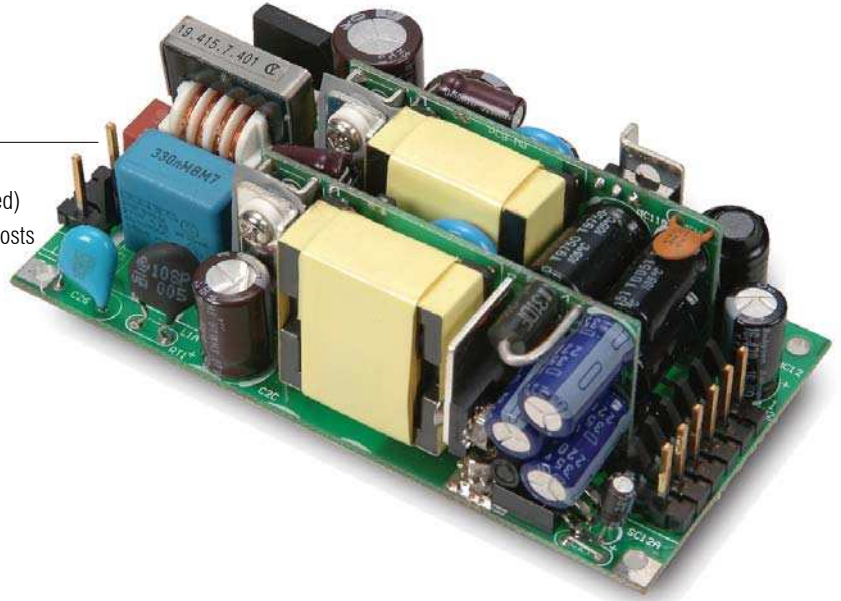
VNS65 Series

65 Watts

Triple Output Switching Power Supply

Features:

- * Industry Standard 2 x 4" Open Frame Package
- * UL Class I / UL Class II Approvals (No Safety Ground Required)
- * New Component Technologies for Improved Reliability and costs
- * High Efficiency Operation - Up to 84%
- * Universal AC Input (47-63 Hz)
- * 100,000 hours MTBF (25°C Full Load Operation)
- * Class B Emissions
- * International Safety Approvals & CE Mark
- * 3 Year Warranty



Input Specifications:

Input Range	Universal VAC (90-264 VAC) & 120-370 VDC
Input Frequency	47-63 Hz or DC
Inrush Current	25A @ 115VAC / 50A @ 230VAC max (cold start)
Input Current	1.33A @ 90 VAC / 0.6A @ 200 VAC Maximum
Input Reflected Ripple	FCC 68 part 15 Class B
Efficiency	72-84% Typical (depending on output model)
Input Protection	Single Fused (4 Amp / 250 V)
Hold-up Time	Half Cycle Minimum @ 120 VAC and 80% load
Leakage Current	< 750 μ A maximum @ 264 VAC
Harmonics	EN61000-3-2 Class D

Output Specifications:

Adjustment Range	Fixed at Factory
Minimum Load	See Output Table
Regulation	\pm 3% maximum (line, load & temperature)
Ripple / Noise	\pm 1% pk-pk max (20MHz)
Transient Response	+/- 5% Deviation / < 1msec recovery
Set-Point Accuracy	\pm 2%
Short Circuit Protection	Continuous
Over Load Protection	125-150%, automatic recovery
Over Voltage Protection	120-150%, latched shutdown

Emissions Standards

FCC Part 15J, Part 2	Within Class B Limits
EN55022 / CISPR22	Within Class B Limits

Electromagnetic Compatibility:

Electrostatic Discharge	EN61000-4-2, \pm 4KV Contact / \pm 8KV Air Discharge
Radiated Susceptibility	EN61000-4-3, 26-1000MHz, 10V/M, 80% AM
EFT / Bursts	EN61000-4-4, \pm 2KV
Surges	EN61000-4-5, \pm 2KV Line-Earth, \pm 1KV Line-Line
Conducted Immunity	EN61000-4-6, 0.15 - 800MHz, 10V, 80% AM
Voltage Dips	EN61000-4-11, 95% Dip & 10ms, 30% Dip & 500ms
Voltage Interruptions	EN61000-4-11, 95% Reduction, 5s
Radiated Emissions	FCC 68 part 15 Class B
Conducted Emissions	FCC 68 part 15 Class B
Harmonic Current	EN61000-3-2 Class D
Fluctuations & Flicker	EN61000-3-3

Environmental Specifications:

Operating Temp	0 ~ +50°C (De-Rate 2.5% per °C Rise To +70°C)
Storage Temp	-20 ~ +85°C
Cooling	5 cfm airflow required for full load or derate 25%
Temp Co-Efficient	0.05% per degrees celsius
Humidity	5 to 95% RH Non-Condensing
Vibration	3 Axes 1 Oct/min, 5 min at 4 Res. 0.75G Pk, 5-500Hz
Shock	20G Peak Acceleration
Reliability	>100k hours MTBF (Full Load and 25°C Operation)

International Safety Approvals

Standards	UL 60950 (3RD Edition) File # E158470 CSA 22.2 No. 60950 CB Report (IEC 60950 3rd Edition) File # E158470-A4-CB-1 CE Mark (LVD)
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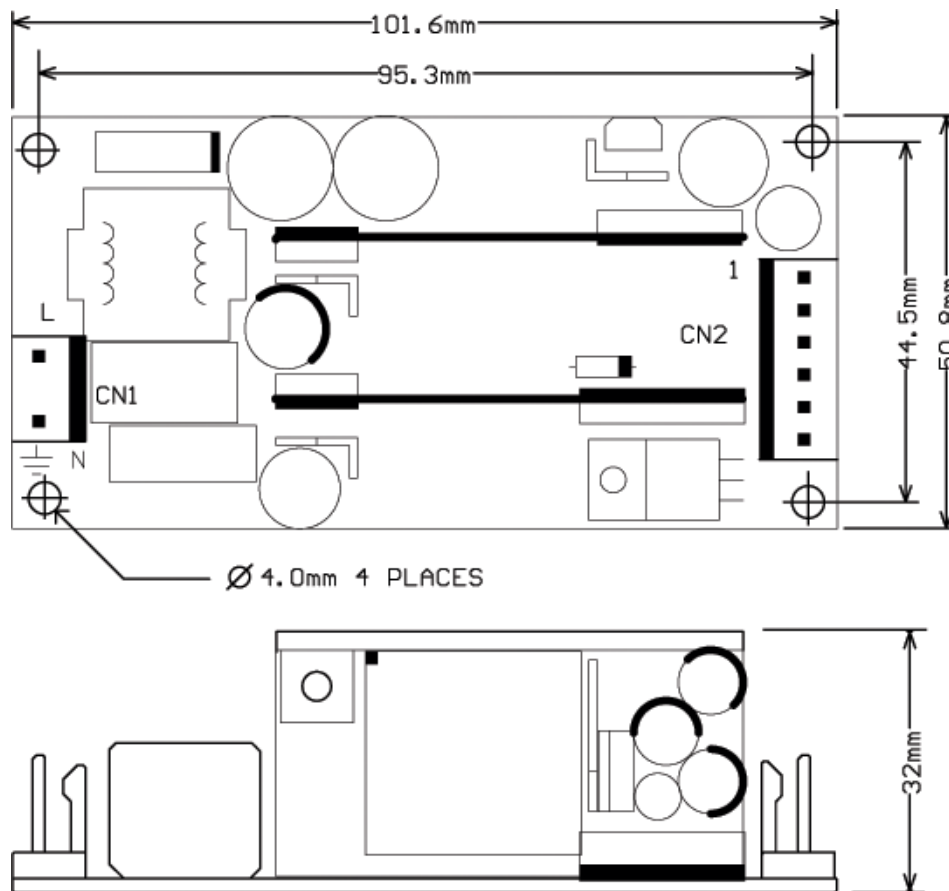
Output Table:

Model	V1	Io Min	Io Max	V2	Io Min	Io Max	V3	Io Min	Io Max
VNS65-31	+3.3VDC	800mA	8.0A	+5VDC	400mA	4.0A	-12VDC	100mA	0.5A
VNS65-32	+5VDC	800mA	8.0A	+12VDC	300mA	3.0A	-12VDC	100mA	0.5A
VNS65-33	+3.3VDC	800mA	8.0A	+12VDC	300mA	3.0A	-12VDC	100mA	0.5A
VNS65-34	+5.0VDC	800mA	8.0A	+24VDC	200mA	1.5A	-12VDC	100mA	0.5A
VNS65-35	+3.3VDC	800mA	8.0A	+24VDC	200mA	1.5A	-12VDC	100mA	0.5A
VNS65-36	+5.0VDC	800mA	8.0A	+15VDC	200mA	2.5A	-15VDC	100mA	0.5A
VNS65-37	+3.3VDC	800mA	8.0A	+15VDC	200mA	2.5A	-15VDC	100mA	0.5A
VNS65-38	+3.3VDC	800mA	8.0A	+5VDC	400mA	4.0A	+12VDC	100mA	0.5A

Mechanical Specifications:

Construction: Open Frame

Weight: 0.385 lb / 0.174 kg.



Input Pin Assignmets:

CN1-1 Line
CN2-2 Neutral

Output Pin Assignmets:

CN2-1 V1
CN2-2 V1
CN2-3 RETURN
CN2-4 RETURN
CN2-5 V2
CN2-6 V3

Mating Connectors:

CN1 (AC Input) Mating Connector:
Molex 09-50-2030 (3-1) (2139 series)

CN2 (DC Output) Mating Connector:
Molex 26-48-1065 or equivalent