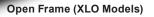
N2Power



N2Power XL65 AC-DC SeriesHigh Efficiency Power Supplies

er Supplies U-Frame (XLU Models)



DIN Rail (XLD Models)

Enclosed (XLE Models)



- 65 W AC-DC
- High Efficiency-up to 93.5%
- \bullet Low standby power consumption ≤ 0.11 Watt
- Wide input voltage range 85 to 264 VAC
- Also supports DC-DC (input 120 to 370 VDC)
- Convection cooled full power
- Built-in EMI filter
- Output voltage adjustable (±10%)
- Open frame dimensions 2.00" x 3.00" x 1.16"
- 3000VAC input to output reinforced insulation
- Protection type Class I or Class II
- Low leakage current: \leq 75 μ A at 264 VAC (33 μ A at 115 VAC)
- Operating temperature -40° C to +85° C
- Operating altitude 5000 M
- 3 year warranty



The XL65 is not only one of the smallest 65 Watt power supplies on the market, it is also available in a choice of four different packages to suit diverse application requirements; XLO Open-Frame models, XLU U-Frame models, XLE Enclosed models and XLD DIN Rail models. Despite its small size, the full 65 W output power is delivered with convection cooling only – no need for a fan!

CONNECTOR OPTIONS

Choose from JST, Molex or Terminal Block connectors:







APPLICATIONS

The excellent operating characteristics of the XL65 Series plus its wide range of international compliance certifications make it the ideal choice for use in diverse applications that include personal computers, wireless networking, measurement equipment, telecom/datacom, industrial control systems and automation.

A POWER SUPPLY DESIGN LEADER

N2Power leads the power density race with its high efficiency XL65 Series AC -DC power supplies, which provide up to 93.5% efficiency. In fact, comparisons of efficiencies show that our supplies can reduce energy losses by up to 50%. Our advanced technology yields a very small footprint and offers the highest power density in its class. This unique design also generates less wasted heat—reducing the need for forced air cooling, decreasing AC power consumption, increasing reliability, and maximizing its economy of operation. By building our power supplies with a focus on maximizing efficiency, we can provide our valued customers with reduced energy costs, longer product lifespans, and a greater return on their investment.

CHUS CB CE FC ROHS & REACH &

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N2Power XL65 AC-DC Series

High Efficiency Power Supplies

				REGULATION	MAXIMUM	RIPPLE &
MODEL	PART NUMBER	OUTPUT	VOLTAGE	(%) (4)	CURRENT (A)	NOISE (P-P)
XLO65-05C XLU65-05C XLE65-05C XLD65-05C XLO65-05D XLU65-05D XLE65-05D XLD65-05D	400574-14-3 400573-14-3 400572-14-3 400571-14-3 400574-01-1 400573-01-1 400572-01-1	V _{оит}	5	±0.7	10	75 mV
XLO65-7P5C XLU65-7P5C XLE65-7P5C XLD65-7P5C XLO65-7P5D XLU65-7P5D XLE65-7P5D XLD65-7P5D	400574-18-5 400573-18-5 400572-18-5 400571-18-5 400574-05-2 400573-05-2 400572-05-2 400571-05-2	Vоит	7.5	±0.5	8.67	75 mV
XLO65-09C XLU65-09C XLE65-09C XLD65-09C XLO65-09D XLU65-09D XLE65-09D XLD65-09D	400574-19-3 400573-19-3 400572-19-3 400571-19-3 400574-06-0 400573-06-0 400572-06-0 400571-06-0	V _{оит}	9	±0.5	7.23	75 mV
XLO65-12C XLU65-12C XLE65-12C XLD65-12C XLO65-12D XLU65-12D XLE65-12D XLD65-12D	400574-15-1 400573-15-1 400572-15-1 400571-15-1 400574-02-9 400573-02-9 400572-02-9 400571-02-9	Vоит	12	±0.5	5.42	75 mV
XLO65-15C XLU65-15C XLE65-15C XLD65-15C XLO65-15D XLU65-15D XLE65-15D XLD65-15D	400574-20-1 400573-20-1 400572-20-1 400571-20-1 400574-07-8 400573-07-8 400572-07-8 400571-07-8	Vouт	15	±0.5	4.34	75 mV
XLO65-18C XLU65-18C XLE65-18C XLD65-18C XLO65-18D XLU65-18D XLE65-18D XLD65-18D	400574-16-9 400573-16-9 400572-16-9 400571-16-9 400574-03-7 400573-03-7 400572-03-7 400571-03-7	Vouт	18	±0.5	3.62	75 mV
XLO65-24C XLU65-24C XLE65-24C XLD65-24C XLO65-24D XLU65-24D XLE65-24D XLD65-24D	400574-21-9 400573-21-9 400572-21-9 400571-21-9 400574-08-6 400573-08-6 400572-08-6 400571-08-6	V _{оит}	24	±0.5	2.71	75 mV

Note: If you can't find your preferred output voltage listed on the table above, please contact a sales representative. We can easily modify standard PSUs to meet client-specific voltage requirements.

Contact us regarding custom and modified standard supplies for unique applications. For complete specifications on all models, please visit our website at N2Power.com

85 – 264 VAC 120 – 370 VDC		
47 – 63 Hz		
1.6 A @ 100 VAC 0.9 A @ 240 VAC		
15 A / 250 VAC fuse		
3000 VAC input to output 2500 VAC input to ground		
60 A @ 230 VAC, 25°C		
75 μA @ 264 VAC 33 μA @ 115 VAC		
65 W		
5 V to 53 V		
±10%		
±1.0%		
±0.2% (2)		
1 sec / 20ms, at full load		
Minimum 16 ms at 115 VAC, full load		
Up to 93.5%		
No load		
Max 1% at turn-on		
Latch mode at 125 - 140% of V _{OUT}		
Hiccup mode at 145% of I _{OUT} rated		
Continuous protection, with auto recovery		
with auto recovery		
with auto recovery 500 VDC @ 0.1 GΩ		
with auto recovery 500 VDC @ 0.1 GΩ CATIONS		
with auto recovery 500 VDC @ 0.1 GΩ CATIONS -40 to +85°C		
with auto recovery 500 VDC @ 0.1 GΩ CATIONS -40 to +85°C - 40 to +85°C		

Notes

MTBF (full load at 25°C):

(1) All specifications valid at normal input voltage, full load and +25°C after warm-up time, unless otherwise stated.

1.494.000 hours

- (2) Tolerance includes setup time tolerance, line regulation and load regulation.
- (3) Line regulation is measured from low line to high line at rated load.
- (4) Load regulation is measured from 0% to 100% rated load.
- (5) Length of setup time is measured at first cold start. Turning ON/OFF the power supply continuously may increase the setup time.



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Call 603.363.774



N2Power XL65 AC-DC Series

High Efficiency Power Supplies

MODEL	PART NUMBER	OUTPUT	VOLTAGE	REGULATION (%) ⁽⁴⁾	MAXIMUM CURRENT (A)	RIPPLE & NOISE (P-P)
XLO65-28C XLU65-28C XLE65-28C XLD65-28C XLO65-28D XLU65-28D XLE65-28D XLD65-28D	400574-22-7 400573-22-7 400572-22-7 400571-22-7 400574-09-4 400573-09-4 400572-09-4 400571-09-4	Vоит	28	±0.5	2.33	75 mV
XLO65-36C XLU65-36C XLE65-36C XLD65-36C XLO65-36D XLU65-36D XLE65-36D XLD65-36D	400574-24-2 400573-24-2 400572-24-2 400571-24-2 400574-11-0 400573-11-0 400571-11-0	Vоит	36	±0.5	1.81	75 mV
XLO65-48C XLU65-48C XLE65-48C XLD65-48C XLO65-48D XLU65-48D XLE65-48D XLD65-48D	400574-25-0 400573-25-0 400572-25-0 400571-25-0 400574-12-8 400573-12-8 400572-12-8 400571-12-8	V _{оит}	48	±0.5	1.36	150 mV
XLO65-53C XLU65-53C XLE65-53C XLD65-53C XLO65-53D XLU65-53D XLE65-53D XLD65-53D	400574-26-8 400573-26-8 400572-26-8 400571-26-8 400574-13-6 400573-13-6 400572-13-6 400571-13-6	Vоит	53	±0.5	1.24	150 mV

Note: If you can't find your preferred output voltage listed on the table above, please contact a sales representative. We can easily modify standard PSUs to meet client-specific voltage requirements.

Model numbers with suffix 'C' comply with Protection Class I. Those with suffix 'D' comply with Protection Class II.

Compliance* Safety: IEC/EN/UL 60950-1 second edition

IEC/EN/UL 62368-1

EMC: Emission: EN 55032 and FCC Part 15. Class B

EN61000-3-2, EN61000-3-3

EMC: Immunity: EN 55024, EN 61000-4-2, EN 61000-4-3, EN 61000-4-4,

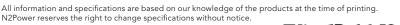
EN 61000-4-5, EN 61000-4-6, EN 61000-4-8, EN 61000-4-11

*The power supply is considered a component of the final product in which it is integrated. The final product itself must be tested separately for compliance with all applicable standards.

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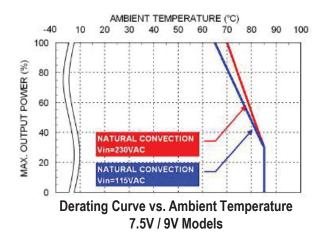


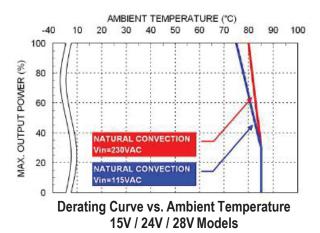


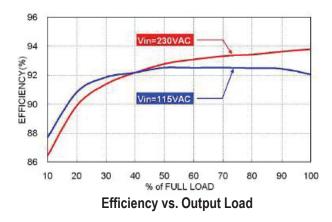


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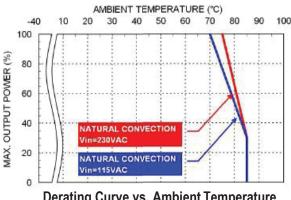
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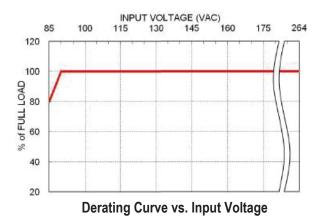




All information and specifications are based on our knowledge of the products at the time of printing.



Derating Curve vs. Ambient Temperature 5V / 12V / 36V / 48V / 53V Models



96 lout= 100% Full Load 94 EFFICIENCY(%) 88 86 130 150 170 190 210 90 250 264 85 INPUT VOLTAGE(V)

Efficiency vs. Input Voltage

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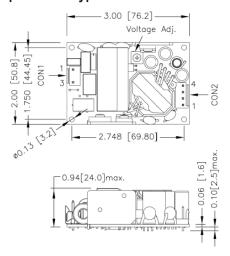
MECHANICAL DRAWINGS

Connector Pin Assignments

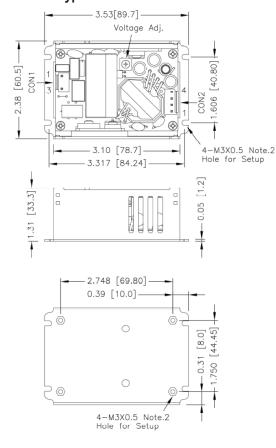
CON1 – Input Connector		
Pin 1	Line	
Pin 3	Neutral	

CON2 – Output onnector		
Pin 1, 2	- V _{out}	
Pin 3, 4	+V _{out}	

Open Frame type



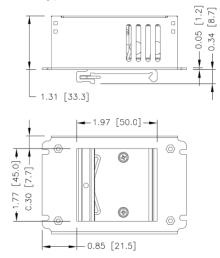
U-Frame type



Notes

- All dimensions are in inches [mm]
- Tolerance: x.xx±0.02 (x.x±0.5) x.xxx±0.01 (x.xx±0.25)
- M3x0.5 screw locked torque MAX 5Kgf.cm/0.49N.m
- Any one of the four screw holes of the Open Frame chassis can be used as a PG connection point for CLASS I application.

DIN Rail type



Enclosed type

