

### N2POWER XL40 AC-DC SERIES HIGH-EFFICIENCY POWER SUPPLY

- Low standby power consumption ≤ 0.11 Watt
- Wide input voltage range 85 to 264VAC, 47 to 63HZ
- Also supports DC-DC (input 120 to 370VDC)
- Convection cooled
- Built-in EMI filter
- Output voltage adjustable
- Open frame dimensions 2.00" x 3.00" x 1.00"
- 3000VAC input to output reinforced insulation
- Protection type Class I or Class II
- Low leakage current:
   ≤ 75µA at 264VAC (33µA at 115VAC)
- Operating temperature -40°C to +85°C
- Operating altitude 5000M
- 3 year warranty

### **Packaging Choices**

The XL40 is not only one of the smallest 40 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 40W output power is delivered with convection cooling only – no need for a fan!

#### **Applications**

The excellent operating characteristics of the XL40 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.

### **Connector Options**

Choose from JST, Molex or Terminal Block connectors:















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MODEL	PART NUMBER	OUTPUT	VOLTAGE	REGULATION (%) (4)	MAXIMUM CURRENT (A)	RIPPLE & NOISE (P-P)
XLO40-05 XLU40-05 XLE40-05 XLD40-05 XLO40-05B XLU40-05B XLE40-05B XLD40-05B	400570-14-3 400569-14-3 400568-14-3 400567-14-3 400570-01-1 400569-01-1 400568-01-1 400567-01-1	Vоит	5	±0.7	8	75 mV
XLO40-7P5 XLU40-7P5 XLE40-7P5 XLD40-7P5 XLO40-7P5B XLU40-7P5B XLE40-7P5B XLD40-7P5B	400570-18-5 400569-18-5 400568-18-5 400567-18-5 400570-05-2 400569-05-2 400568-05-2 400567-05-2	Vоит	7.5	±0.5	5.34	75 mV
XLO40-09 XLU40-09 XLE40-09 XLD40-09 XLO40-09B XLU40-09B XLE40-09B XLD40-09B	400570-19-3 400569-19-3 400568-19-3 400567-19-3 400570-06-0 400569-06-0 400568-06-0 400567-06-0	Vоит	9	±0.5	4.45	75 mV
XLO40-12 XLU40-12 XLE40-12 XLD40-12 XLO40-12B XLU40-12B XLE40-12B XLD40-12B	400570-15-1 400569-15-1 400568-15-1 400567-15-1 400570-02-9 400569-02-9 400568-02-9 400567-02-9	V <sub>оит</sub>	12	±0.5	3.34	75 mV
XLO40-15 XLU40-15 XLE40-15 XLD40-15 XLO40-15B XLU40-15B XLE40-15B XLD40-15B	400570-20-1 400569-20-1 400568-20-1 400567-20-1 400570-07-8 400569-07-8 400568-07-8 400567-07-8	Vоит	15	±0.5	2.67	75 mV
XLO40-18 XLU40-18 XLE40-18 XLD40-18 XLO40-18B XLU40-18B XLE40-18B XLD40-18B	400570-16-9 400569-16-9 400568-16-9 400567-16-9 400570-03-7 400569-03-7 400568-03-7 400567-03-7	V <sub>оит</sub>	18	±0.5	2.23	75 mV
XLO40-24 XLU40-24 XLE40-24 XLD40-24 XLO40-24B XLU40-24B XLE40-24B XLD40-24B	400570-17-7 400569-17-7 400568-17-7 400567-17-7 400570-04-5 400569-04-5 400568-04-5 400567-04-5	Vоит	24	±0.5	1.67	75 mV

85 – 264 VAC 120 – 370 VDC		
47 – 63 Hz		
1.0 A @ 100 VAC 0.5 A @ 240 VAC		
15 A / 250 VAC fuse		
3000 VAC in to out 2500 VAC in to ground		
60 A @ 230 VAC, 25°C		
75 μA @ 264 VAC 33 μA @ 115 VAC		
40 W		
5 V to 53 V		
±10%		
±1.0%		
±0.2% (2)		
1 sec / 20ms, at full load		
Minimum 25 ms at 115 VAC, full load		
Up to 93%		
No load		
Max 1% at turn-on		
Latch mode at 125 - 140% of V <sub>OUT</sub>		
Hiccup mode at 145% of lout rated		
Continuous protection, with auto recovery		
500 VDC @ 0.1 GΩ		
ATIONS		
–40 to +85°C		
– 40 to +85°C		
5000 m		
3000 111		
40W		

- (1) All specifications valid at normal input voltage, full load and +25°C after warm-up time, unless otherwise stated.
- (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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MODEL	PART NUMBER	OUTPUT	VOLTAGE	REGULATION (%) (4)	MAXIMUM CURRENT (A)	RIPPLE & NOISE (P-P)
XLO40-28 XLU40-28 XLE40-28 XLD40-28 XLO40-28B XLU40-28B XLE40-28B XLD40-28B	400570-22-7 400569-22-7 400568-22-7 400567-22-7 400570-09-4 400569-09-4 400568-09-4 400567-09-4	V <sub>оит</sub>	28	±0.5	1.43	75 mV
XLO40-36 XLU40-36 XLE40-36 XLD40-36 XLO40-36B XLU40-36B XLE40-36B XLD40-36B	400570-24-2 400569-24-2 400568-24-2 400567-24-2 400570-11-0 400569-11-0 400568-11-0 400567-11-0	Vоит	36	±0.5	1.12	75 mV
XLO40-48 XLU40-48 XLE40-48 XLD40-48 XLO40-48B XLU40-48B XLE40-48B XLD40-48B	400570-25-0 400569-25-0 400568-25-0 400567-25-0 400570-12-8 400569-12-8 400568-12-8 400567-12-8	Vоит	48	±0.5	0.84	150 mV
XLO40-53 XLU40-53 XLE40-53 XLD40-53 XLO40-53B XLU40-53B XLE40-53B XLD40-53B	400570-26-8 400569-26-8 400568-26-8 400567-26-8 400570-13-6 400569-13-6 400568-13-6 400567-13-6	Vоит	53	±0.5	0.77	150 mV

Model numbers without the suffix 'B' comply with Protection Class I. Those with suffix 'B' comply with Protection Class II.

Compliance \*

USA / Canada International

Safety:

UL 60950-1 second edition IEC 60950-1

EMC:

FCC part 15, subpart B EN55011 (Radiative, Class A) EN 55032

(Conductive, Class B) (Radiative, Class A) (Conductive, Class B)

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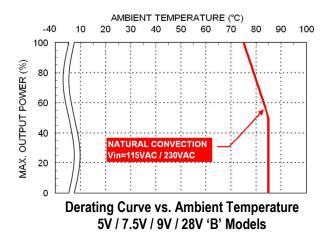
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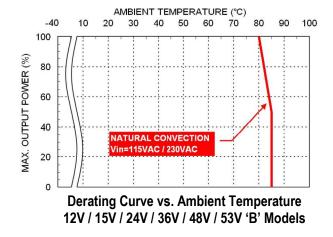
NASDAQ: QBAK Rev: 03-16-18

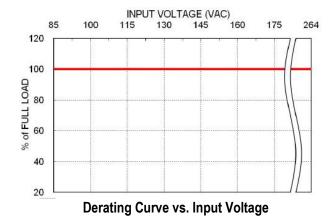
<sup>\*</sup>The power supply is considered a component of the final product in which it is integrated. The final product itself must be tested separately for compliance with all applicable standards.

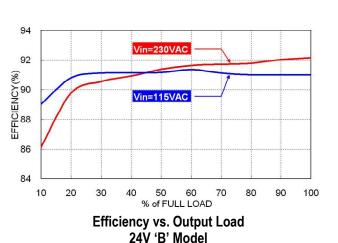


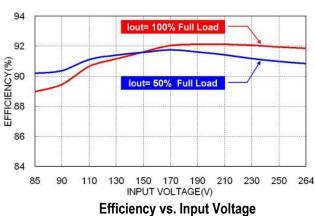
### **OPERATING CHARACTERISTICS**











24V 'B' Model

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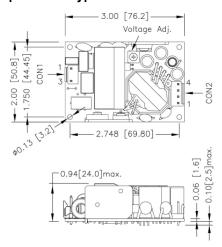
### **MECHANICAL DRAWINGS**

### **Connector Pin Assignments**

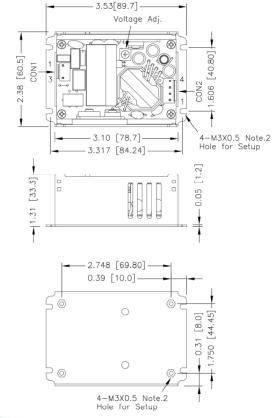
CON1 – Input Connector		
Pin 1	Line	
Pin 3	Neutral	

CON2 – Output Connector		
Pin 1, 2	- V <sub>out</sub>	
Pin 3, 4	+V <sub>out</sub>	

### **Open Frame type**



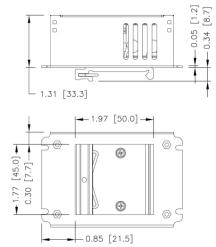
### **U-Frame type**



#### **Notes**

- All dimensions are in inches [mm]
- 2. Tolerance: x.xx±0.02 (x.x±0.5) x.xxx±0.01 (x.xx±0.25)
- 3. M3x0.5 screw locked torque MAX 5Kgf.cm/0.49N.m
- 4. 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**

