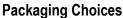


- Low standby power consumption ≤ 0.3 Watt
- Wide input voltage range 85 to 264VAC, 47 to 63HZ
- Also supports DC-DC (input 120 to 370VDC)
- Convection cooled
- Active power factor correction
- Built-in EMI filter
- Output voltage adjustable
- Open frame dimensions 2.00" x 3.00" x 1.16"
- 3000VAC input to output reinforced insulation
- Protection type Class I or Class II
- Low leakage current ≤ 300uA
- Operating altitude 5000M
- 3 year warranty



The XL100 is not only one of the smallest 100 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 100W output power is delivered with convection cooling only – no need for a fan!

### **Applications**

The excellent operating characteristics of the XL100 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**

JST standard – Molex or Terminal Block optional















DIN Rail (XLD Models)





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MODEL	PART NUMBER	OUTPUT	VOLTAGE	REGULATION (%)	MAXIMUM CURRENT (A)	RIPPLE & NOISE (P-P)
XLO100-12 XLU100-12 XLE100-12 XLD100-12 XLO100-12B XLU100-12B XLE100-12B XLD100-12B	400575-01-5 400576-01-3 400577-01-1 400578-01-9 400575-07-2 400576-07-0 400577-07-8 400578-07-6	V <sub>оит</sub>	12	±0.5	8.34	120 mV
XLO100-15 XLU100-15 XLE100-15 XLD100-15 XLO100-15B XLU100-15B XLE100-15B XLD100-15B	400575-02-3 400576-02-1 400577-02-9 400578-02-7 400575-08-0 400576-08-8 400577-08-6 400578-08-4	Vоит	15	±0.5	6.67	150 mV
XLO100-24 XLU100-24 XLE100-24 XLD100-24 XLO100-24B XLU100-24B XLE100-24B XLD100-24B	400575-03-1 400576-03-9 400577-03-7 400578-03-5 400575-09-8 400576-09-6 400577-09-4 400578-09-2	Vоит	24	±0.5	4.17	160 mV
XLO100-28 XLU100-28 XLE100-28 XLD100-28 XLO100-28B XLU100-28B XLE100-28B XLD100-28B	400575-04-9 400576-04-7 400577-04-5 400578-04-3 400575-10-6 400576-10-4 400577-10-2 400578-10-0	V <sub>оит</sub>	28	±0.5	3.58	180 mV
XLO100-36 XLU100-36 XLE100-36 XLD100-36 XLO100-36B XLU100-36B XLE100-36B XLD100-36B	400575-05-6 400576-05-4 400577-05-2 400578-05-0 400575-11-4 400576-11-2 400577-11-0 400578-11-8	V <sub>оит</sub>	36	±0.5	2.78	190 mV
XLO100-48 XLU100-48 XLE100-48 XLD100-48 XLO100-48B XLU100-48B XLE100-48B XLD100-48B	400575-06-4 400576-06-2 400577-06-0 400578-06-8 400575-12-2 400576-12-0 400577-12-8 400578-12-6	Vоит	48	±0.5	2.09	340 mV

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

INPUT SPECIFICATIONS			
Nominal Input Voltage:	85 – 264 VAC 120 – 370 VDC		
Input Frequency Range:	47 – 63 Hz		
Input Current:	1.15 A @ 115 VAC 0.55 A @ 230 VAC		
Input Protection:	3.15 A fuse		
Safety Isolation:	3000 VAC in to out 1500 VAC in to ground		
Inrush Current:	100 A @ 230 VAC, 25°C		
Leakage Current:	300 μΑ		
Power Factor:	0.95		
OUTPUT SPECIFICATIONS			
Total Output:	100 W		
Output Voltages:	12 to 48 V		
Voltage adjustability	±10%		
Voltage Tolerance (2)	±1.0%		
Line Regulation (3)	±0.2% (2)		
Load Regulation (4)	±0.5% (2)		
Setup / Rise Time (5)	1 sec / 20ms, at full load		
Hold-up Time:	Minimum 22 ms at 115 VAC		
Efficiency:	Up to 92%		
Minimum Load:	No load		
Over / Under Shoot:	Max 1% at turn-on		
PROTECTION			
Overvoltage Protection:	Latch mode at 115 - 135% of Vout		
Overload Protection:	Hiccup mode at 115 - 150% of I <sub>OUT</sub> rated		
Short Circuit Protection:	Continuous protection, with auto recovery		
Isolation Resistance	500 VDC @ 0.1 GΩ		
ENVIRONMENTAL SPECIFIC	ATIONS		
Operating Temperature:	–40 to +85°C		
Storage Temperature:	– 40 to +85°C		
Operating altitude:	5000 m		
Convection Cooling:	100W		
Relative Humidity:	5% to 95% (non-cond.)		
MTBF (full load at 25°C):	790,300 hours		

#### Notes

- (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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NASDAQ: QBAK Rev: 03-01-18



Compliance \*

USA / Canada Safety: International

UL 60950-1 second edition

IEC 60950-1

EMC:

FCC part 15, subpart B (Radiative, Class A)

EN55011 EN 55022

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

\* 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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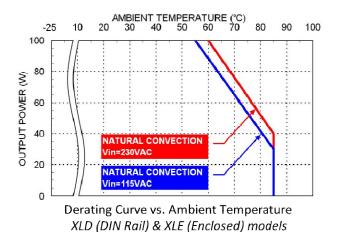


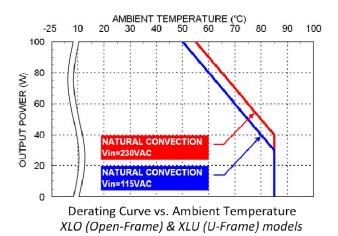
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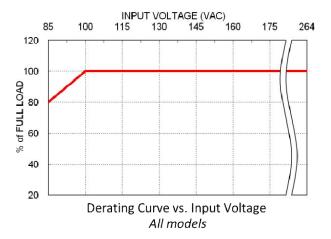
NASDAQ: QBAK Rev: 03-01-18



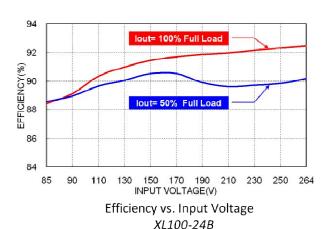
#### **OPERATING CHARACTERISTICS**











c**Al**us CB (€ F© ROHS &



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NASDAQ: QBAK

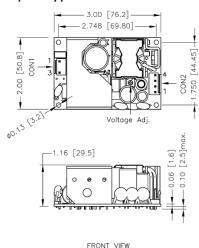
#### **MECHANICAL DRAWINGS**

### **Connector Pin Assignments**

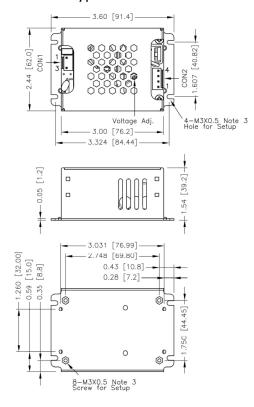
CON1 – Input Connector		
Pin 1	Line	
Pin 3	Neutral	

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

### Open type



### **Enclosed type**

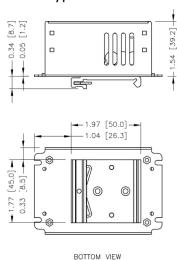


#### BOTTOM VIEW

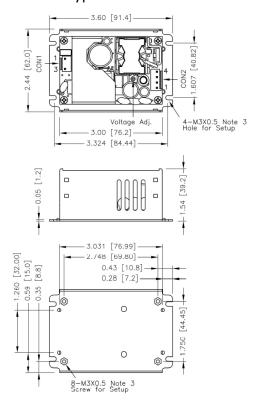
#### **Notes**

- . 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
- 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



U-Frame type



BOTTOM VIEW





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