

# Sorensen XBT 32-3FTP

222 W

## True Triple Output Digital Benchtop Power Supply

15–32 V

- Fully programmable 3rd output 15V/5A/30W
- High resolution, 16-bit programming and readback
- Isolated, tracking, parallel or series operation
- 100 hour timer
- USB and RS-232 Standard
- IEEE488.2 and Ethernet control Optional



3–5 A

~ 115 230

ETHERNET RS232

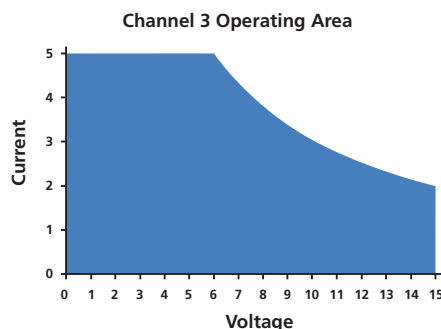
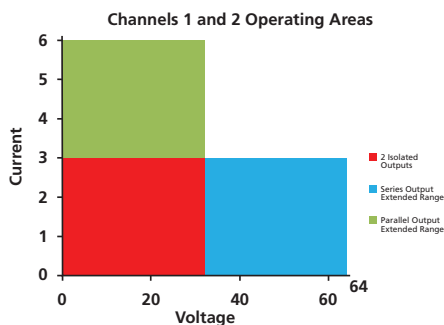
The XBT32-3FTP adds to the capability of the Sorensen benchtop product line with a 16-bit triple output supply. Channels 1 and 2 can be programmed 0-32V and 0-3A each. The third output is fully programmable 0-15V, 0-5A up to a maximum of 30W. Channels 1 and 2 can be configured for tracking, parallel or series operation to, in effect, provide the equivalent of 6 different power supplies. In isolated mode, each of the 3 outputs functions independently; in tracking mode, channels 1 and 2 provide the same, but isolated output; in parallel mode, there is one 0-32V/0-6A output and one 0-15V/0-5A/30W output; in series mode, there is one 0-64V/0-3A output and one 0-15V/0-5A/30W output.

Safety of devices under test is paramount. The XBT series of power supplies provides superior device protection. Each output is fully isolated with voltage/current preview before turning on the output. Built-in switches, in addition to

enabling the preview mode, can configure the outputs for parallel or series connection while graphics on the front panel show the user where to make connections.

Advanced engineering features include storage of 100 different setups (voltage and current) as well as a 100 hour timer. Power-on state and synchronous or individual control of each channel output can also be set. Over-voltage and over-current protection is programmed for each channel.

Computer control is easily accomplished through industry-standard SCPI commands via the USB or RS-232C interfaces which come standard on every unit. The GPIB / Ethernet interface option allows 3 low power channels in a half-rack for ATE applications. This option also includes an 8-bit digital I/O which can be set as input or output signals for programming.



洛克儀器股份有限公司  
Lock Instrument Co. Ltd

(台北)新北市中和區中正路764號6樓  
TEL: (02)3234-6000  
(新竹)新竹市北區光華二街72巷79號  
TEL: (03)532-4199  
官方網站: [www.lockinc.com.tw](http://www.lockinc.com.tw)  
網路商店: [www.pcstore.com.tw/lock](http://www.pcstore.com.tw/lock)

AMETEK  
Programmable Power  
9250 Brown Deer Road  
San Diego, CA 92121-2267  
USA

**AMETEK**  
PROGRAMMABLE POWER

# XBT 32-3FTP : Product Specifications

Output Ratings		
	Channel 1 and 2	Channel 3
Voltage (VDC)	0-32	0-15
Current (ADC)	0-3	0-5
Power (W)	96	30
Output Performance		
Voltage Setting and Readback		
Accuracy	0.01% + 5mV	
Amplitude Resolution	1mV	1mV
Current Setting and Readback		
Accuracy	0.1% + 3mA	0.1% + 3mA
Resolution	100 $\mu$ A	100 $\mu$ A
Voltage Ripple	0.5 mVRMS	1mVRMS
Voltage Noise	5 mVpp	20mVpp
Current Ripple	1mA	5mARMS
Load Regulation		
Voltage	0.01% + 2mV	5mV
Current	0.01% + 300 $\mu$ A	
Line Regulation		
Voltage	0.01% + 2mV	
Current	0.01% + 300 $\mu$ A	
Stability (8 hours, constant load and temperature)		
Voltage	0.02% + 2mV	
Current	0.01% + 1mA	
Temperature Coefficient (per C)		
Voltage	0.01% + 3mV	
Current	0.02% + 2mA	
Transient Response	50 $\mu$ S	
Voltage Programming Time (typical)		
Rise Time (Full Load)	1ms	3ms
Rise Time (No Load)	1ms	3ms
Fall Time (Full Load)	3ms	8ms
Fall Time (No Load)	250ms	250ms
Common		
Memory Storage	100 setups	
Timer	1 second to 100 hours	
Regulatory Compliance	cETLus (ANSI/UL61010-1-04, CAN/CSA C22.2 No. 61010-1-04) Compliant to CE Mark LVD EN61010-1, EMC EN61326	
AC Input	115 / 230 VAC 10%, 47-63Hz	
Operating Temperature	0 to 40 C	
Storage Temperature	-10 to +70 C	
Weight	14.3 lbs. / 6.5 kgs	
Size (WxHxD)	8.5x5.3x17 in / 216x135x432 mm	
Options and Accessories		
M139	IEEE488.2 and Ethernet control interfaces	
MHV	Setup for 230V 10% AC Input	
RM-XBT	Rack mount kit for XBT Series power supplies	

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