

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

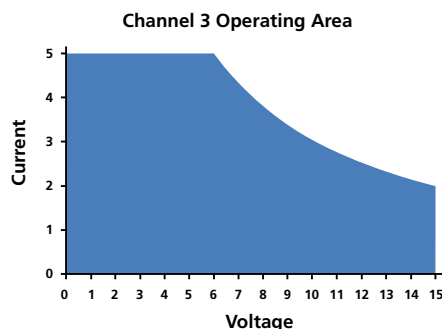
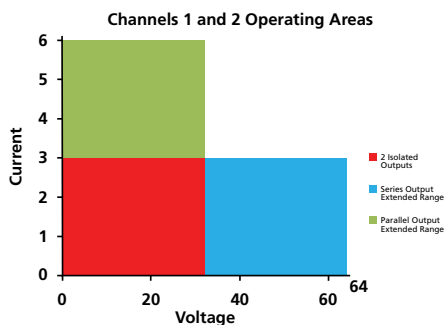
The XBT32-3FTP adds to the capability of the Sorensen benchtop product line with a 16-bit triple output supply. Channels 1 and 2 can be programmed 0-32V and 0-3A each. The third output is fully programmable 0-15V, 0-5A up to a maximum of 30W. Channels 1 and 2 can be configured for tracking, parallel 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.



Distributed by:
www.SignalTestInc.com
 1529 Santiago Ridge Way
 San Diego, CA 92154 USA.
Sales@SignalTestInc.com

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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 μ A | 100 μ 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 μ A | |
| Line Regulation | | |
| Voltage | 0.01% + 2mV | |
| Current | 0.01% + 300 μ 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 μ 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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