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Find the *VX Instruments AXC7572* at our website: *Click HERE*

AXC757x
250 A High Current SMU Family



PXI
VXI
LAN
cPCI
PXIe
GPIB
USB
RS232
485
external PCIe

Features

- Extremely low noise with linear output stage
- Output current up to 250 A pulse mode
- Programmable output voltage up to 50 V
- Programmable current pulse
- Integrated current measurement unit
- Integrated voltage measurement unit
- Integrated LAN, GPIB and USB interface
- Front touch display available
- Optional: integrated isolated voltage measurement unit

Download the complete datasheet here:
http://www.vxinstruments.com/catalog/AXC757x.pdf

Product Information

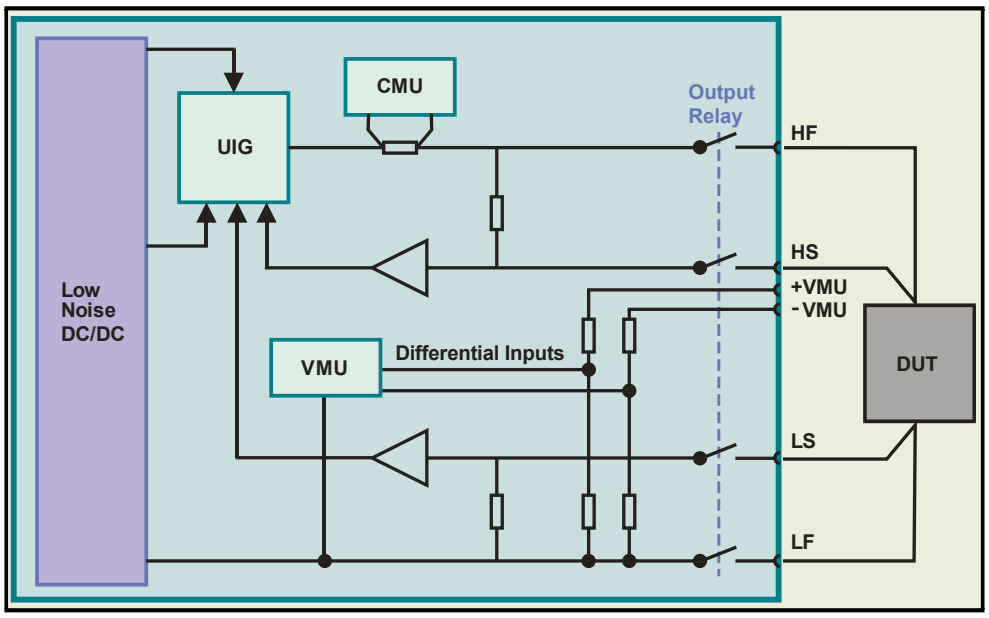
The AXC757x 250 A High Current Source and Measurement Unit family was designed for semiconductor and high throughput testing.

Very fast linear output stage
The very fast rise time allows current pulses up to 250 A with a programmable pulse length.

The pulse duration can be configured from 250 µs to 2 ms at maximum current (4 ms at the AXC7572 on request).
An integrated "Ixt limiter" monitors the maximum current-time product of 250 A x 2 ms (4 ms at the AXC7572 on request). This allows a multitude of current-pulse-length combinations.

Integrated measurement units...
Together with the integrated differential voltage measurement unit (VMU) and the integrated current measurement unit (CMU) all high current tests of power semiconductor can be done.
An optional isolated VMU is available on request. This VMU will have an additional measurement range and a much higher CMRR.

Multiple interfaces included
Interfaces for LAN, GPIB and USB are included to offer an easy communication with most usual control devices.



Ordering Option	Comment
AXC7572	250 A / 20V on request
AXC7575	250 A / 50V
Option VMU-ISOL	Isolated VMU on request
Option NON-ISOL	Non-isolated device
Option HIGH-ISOL	Isolated device by gas discharge tube
Option FE	Front touch display
Option RMK	19" rack mounting kit

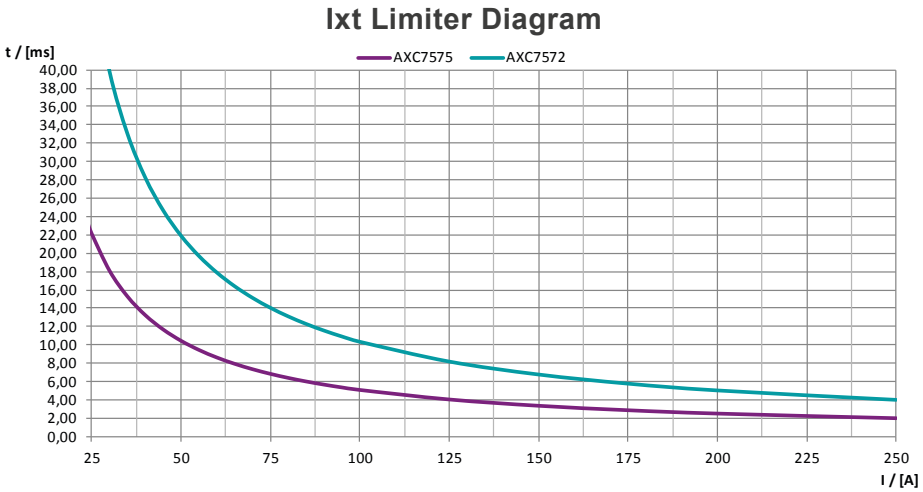
General	Specification	Comment
AC line voltage	230 V_{AC} ±10%	
AC line frequency	47 Hz ... 63 Hz	
Power consumption	<2 000 W	
Operating temperature	0 ... 35°C	Up to 50°C but degrading pulse-pause-ratio
Operating altitude	<2 000 m	
Relative humidity	Up to 85% at 35°C	
Storage temperature range	-25 ... 70°C	
Size	19" x 6U x ≈595 mm	≈655 mm with handles
Weight	≈46 kg	
Electrical safety	According EN61010-1	
Isolation output LF to PE	100 V CAT I, Pollution Degree 2	Standard 15kOhm LF to PE Option NON-ISOL: direct connection of LF to PE Option HIGH-ISOL: isolation LF to PE by gas discharge tube

Voltage Control Unit	Specification	Comment
Resolution	16 Bit	In all ranges
DC accuracy		
Gain error	±0.1% of value	
Offset error	±0.1% of full scale	
Output voltage		Programmable output voltage
Range	0 V ... 20 V (AXC7572) 0 V ... 50 V (AXC7575)	

Current Control Unit	Specification	Comment
Resolution	16 Bit	
DC accuracy		
Gain error	±0.5% of value	
Offset error	±0.5% of full scale	
Output current		
Maximum pulse current	250 A	Programmable output current 15 ... 500 A[1] Max. pulse length see "IxT-Limiter" diagram
Average output current	10 A	See manual for calculation
Minimum pulse length	250 µs	Lower pulse length on request

[1] Lower currents on request.

Notes: All product data are specified for 1 year at an ambient temperature of 23°C ±5°C (after 1 hour warm-up time).
Product specification and description in this document are subject to change without notice.



The integrated "Ixt limiter" provides a multitude of current -pulse length combinations while monitoring the maximum current-time product.

Current Measurement	Specification
Resolution	16 Bit
Filter frequencies	100 Hz, 1 kHz, 10 kHz, 100 kHz
DC accuracy[1]	
Range 25 A	±1.0% of range ±0.5% of value
Range 250 A	±0.5% of range ±0.5% of value

Voltage Measurement	Specification
Resolution	16 Bit
Filter frequencies	100 Hz, 1 kHz, 10 kHz, 100 kHz
Common mode voltage range	60 V
CMRR	>80 dB
DC accuracy[1]	
Range 1 V	±0.1% of range ±0.1% of value
Range 10 V	±0.1% of range ±0.1% of value
Range 100 V	±0.1% of range ±0.1% of value

[1] With 100 Hz filter and 20 samples with an interval of 1 ms.

On Request

Isolated Voltage Measurement	Specification
Resolution	16 Bit
Filter frequencies	100 Hz, 1 kHz, 10 kHz, 100 kHz
Common mode voltage range	60 V
CMRR	>110 dB
DC accuracy[1]	
Range 100 mV	±0.3% of range ±0.1% of value
Range 1 V	±0.1% of range ±0.1% of value
Range 10 V	±0.1% of range ±0.1% of value
Range 50 V	±0.1% of range ±0.1% of value

[1] With 100 Hz filter and 20 samples with an interval of 1 ms.

Voltage Monitor	Specification
Output voltage	tbd
Internal resistance	tbd
Accuracy	tbd

Current Monitor	Specification
Output voltage	tbd
Internal resistance	tbd
Accuracy	tbd

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