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AXC76xx
High Current SMU Family



TECHNICAL DATA SHEET

PXI
VXI
LAN
cPCI
PXIe
GPIB
USB
RS232
485
external
PCIe

Features

- Output current up to 2,000 A and output voltage up to 120 V; Pulse and DC capable
- Very fast rise and fall time
- Programmable current pulse with auto-measurement of current and voltage
- Very high power density in less space
- Fully isolated design, isolated outputs
- Trigger capabilities and digital I/Os
- Integrated measurement units with current monitor signal
- Front touch display available

Product Information

The AXC76xx High Current SMU was designed for power semiconductor and high throughput testing.

Modern switching regulator technology
The AXC76xx High Current SMU is based on modern and efficient switching regulator technology.
This allows a very high power density in less space. Furthermore the fan noise is reduced significantly due to less heat production. The AXC76xx High Current SMU family contains devices with up to 30 kW. The outputs are isolated due to a isolated design.

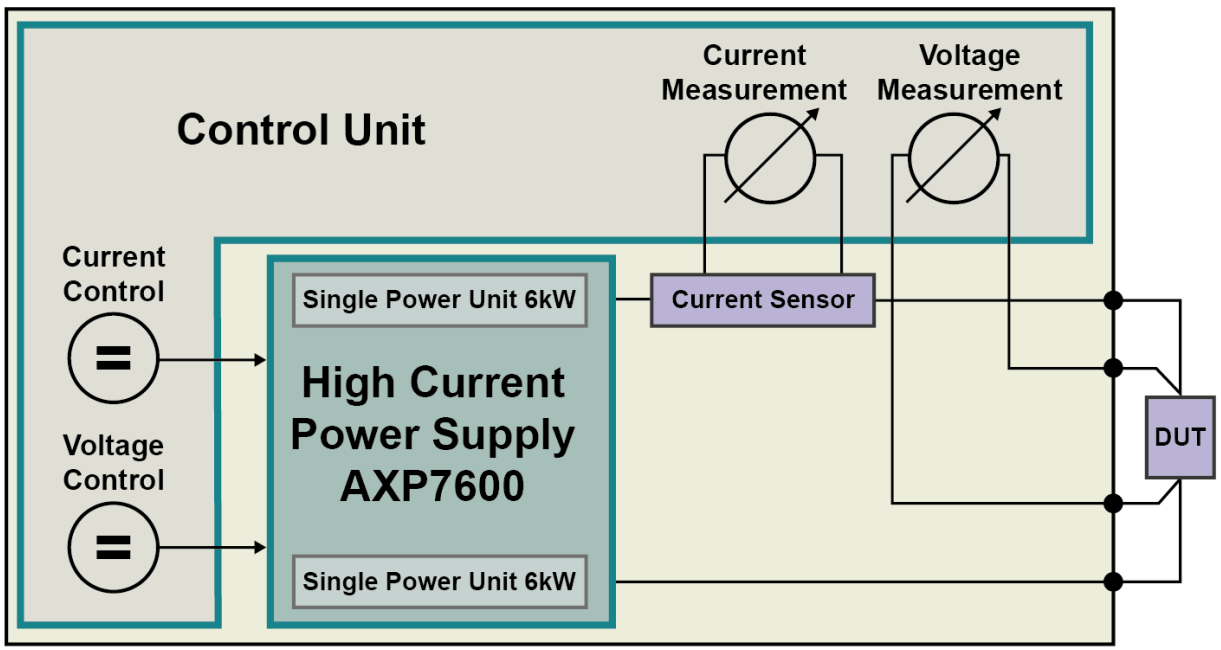
DC or pulse mode
Every AXC76xx High Current SMU is capable of generating full scale DC current and voltage. For power semiconductor testing the integrated current pulse mode might be very helpful. Very fast rise and fall times allow current pulses down to 2 ms.
Automatic current and voltage measurement time stamps can be configured in pulse mode.

Integrated measurement units...
Together with the integrated voltage measurement unit (VMU) and the integrated current measurement unit (CMU) all high current tests of power semiconductor can be done easily.

...with monitor signal
The output current can be measured on the integrated current monitor output with an oscilloscope.

Many safety features
Integrated safety features like various temperature monitorings, mains monitoring, overcurrent detection and a safety interlock help to avoid danger to personnel, equipment or the device under test.

Trigger- and digital-I/Os
The integrated trigger input and output allows interaction with other test equipment. The AXC76xx High Current SMU has 4 digital outputs to control relays.



General	Specification	Comment
AC line voltage	3~400 V_{AC} ±10%	
AC line frequency	50/60 Hz	
Power consumption	6 kW per Single Power Unit	Up to 5 SPUs possible
Operating temperature	0 ... 50°C	
Operating altitude	<2,000 m	
Relative Humidity	Up to 85% at 35°C	
Storage temperature range	-25 ... 70°C	
Size	19"	Height see ordering information table
Weight	See ordering information table	Depending on configuration
Electrical safety	According EN61010-1	
Isolation output to PE	120 V CAT I, Pollution Degree 2	

Voltage Control Unit	Specification	Comment
Resolution	16 Bit	
DC accuracy	±0.3% of full scale	
Maximum output voltage	See ordering information table	

Current Control Unit	Specification	Comment
Resolution	16 Bit	
DC accuracy	±0.3% of full scale	±0.1% of full scale with option HP
Maximum output current	See ordering information table	
Pulse length	>2 ms	

Voltage Measurement Unit	Specification	Comment
Resolution	16 Bit	
Filter frequencies	100 Hz, 1 kHz, 10 kHz, 100 kHz	
DC accuracy[1]		
Range 1 V	±0.1% of full scale	
Range 10 V	±0.1% of full scale	
Range 100 V	±0.1% of full scale	

Current Measurement Unit	Specification	Comment
Resolution	16 Bit	
Filter frequencies	100 Hz, 1 kHz,10 kHz, 100 kHz	
DC accuracy[1]	±0.3% of full scale	±0.1% of full scale with HP option
Range *A	Max. output current	See ordering information table

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

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.

Ordering Information	Max. Current	Max. Voltage	Height	Weight	Comment
AXC7611	400 A	15 V	7U	50 kg	High Current SMU 400 A / 15 V
AXC7613	200 A	30 V	7U	50 kg	High Current SMU 200 A / 30 V
AXC7616	100 A	60 V	7U	50 kg	High Current SMU 100 A / 60 V
AXC7618	50 A	120 V	7U	50 kg	High Current SMU 50 A / 120 V
AXC7621	800 A	15 V	11U	80 kg	High Current SMU 800 A / 15 V
AXC7623	400 A	30 V	11U	80 kg	High Current SMU 400 A / 30 V
AXC7626	200 A	60 V	11U	80 kg	High Current SMU 200 A / 60 V
AXC7628	100 A	120 V	11U	80 kg	High Current SMU 100 A / 120 V
AXC7631	1,200 A	15 V	15U	110 kg	High Current SMU 1,200 A / 15 V
AXC7633	600 A	30 V	15U	110 kg	High Current SMU 600 A / 30 V
AXC7636	300 A	60 V	15U	110 kg	High Current SMU 300 A / 60 V
AXC7638	150 A	120 V	15U	110 kg	High Current SMU 150 A / 120 V
AXC7641	1,600 A	15 V	19U	140 kg	High Current SMU 1,600 A / 15 V
AXC7643	800 A	30 V	19U	140 kg	High Current SMU 800 A / 30 V
AXC7646	400 A	60 V	19U	140 kg	High Current SMU 400 A / 60 V
AXC7648	200 A	120 V	19U	140 kg	High Current SMU 200 A / 120 V
AXC7651	2,000 A	15 V	23U	170 kg	High Current SMU 2,000 A / 15 V
AXC7653	1,000 A	30 V	23U	170 kg	High Current SMU 1,000 A / 30 V
AXC7656	500 A	60 V	23U	170 kg	High Current SMU 500 A / 60 V
AXC7658	250 A	120 V	23U	170 kg	High Current SMU 250 A / 120 V
Option GPIB[2]					GPIB Interface
Option USB[2]					USB2.0 Interface
Option LAN[2]					Ethernet Interface
Option FE[2]					Front panel display
Option HP					High precision DC accuracy

[2] One of these interface options is mandatory.

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