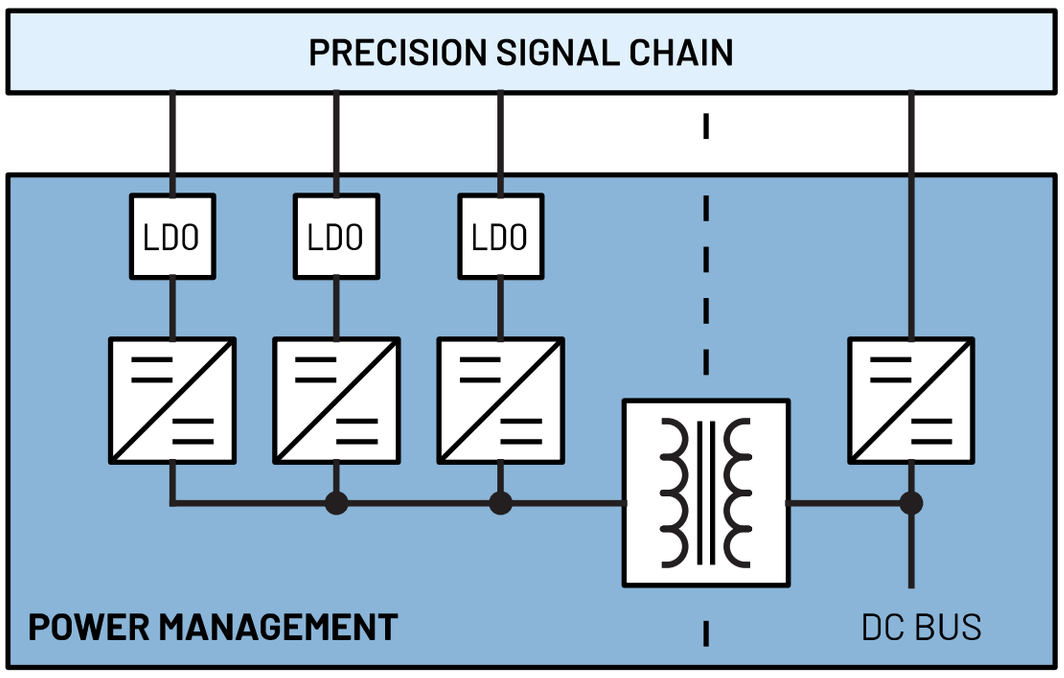
AHEAD OF WHAT'S POSSIBLE™

POWER SOLUTIONS FOR PRECISION TECHNOLOGY SIGNAL CHAINS

PRECISION HIGH VOLTAGE High Common-Mode Current Measurement Highest Initial Accuracy



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This document is interactive. You can click on any underlined text to navigate through the document.

For the resources:

APPENDIX	Parts Guide
	Power Requirements

Left-click the Parts Guide and Power Requirements to go through the list of power devices and other references.

The Power Components are listed on the Appendix, and you may click on the part to go through its product page online.

PART #	DESCRIPTION
LT3471	Dual 1.3A, 1.2MHz Boost/Inverter in 3mm × 3mm DFN
LT8604	High Efficiency 42V/120mA Synchronous Buck
LT8570-1	Boost/SEPIC/Inverting DC/DC Converter with 65V Switch, Soft-Start and Sync.

For the individual pages:

Left-click the specific signal chain to go through its respective block diagram or power tree.

Non-isolated

1-Channel

POWER RE

PARAMETER
Supply Voltage
Supply Current
PSRR

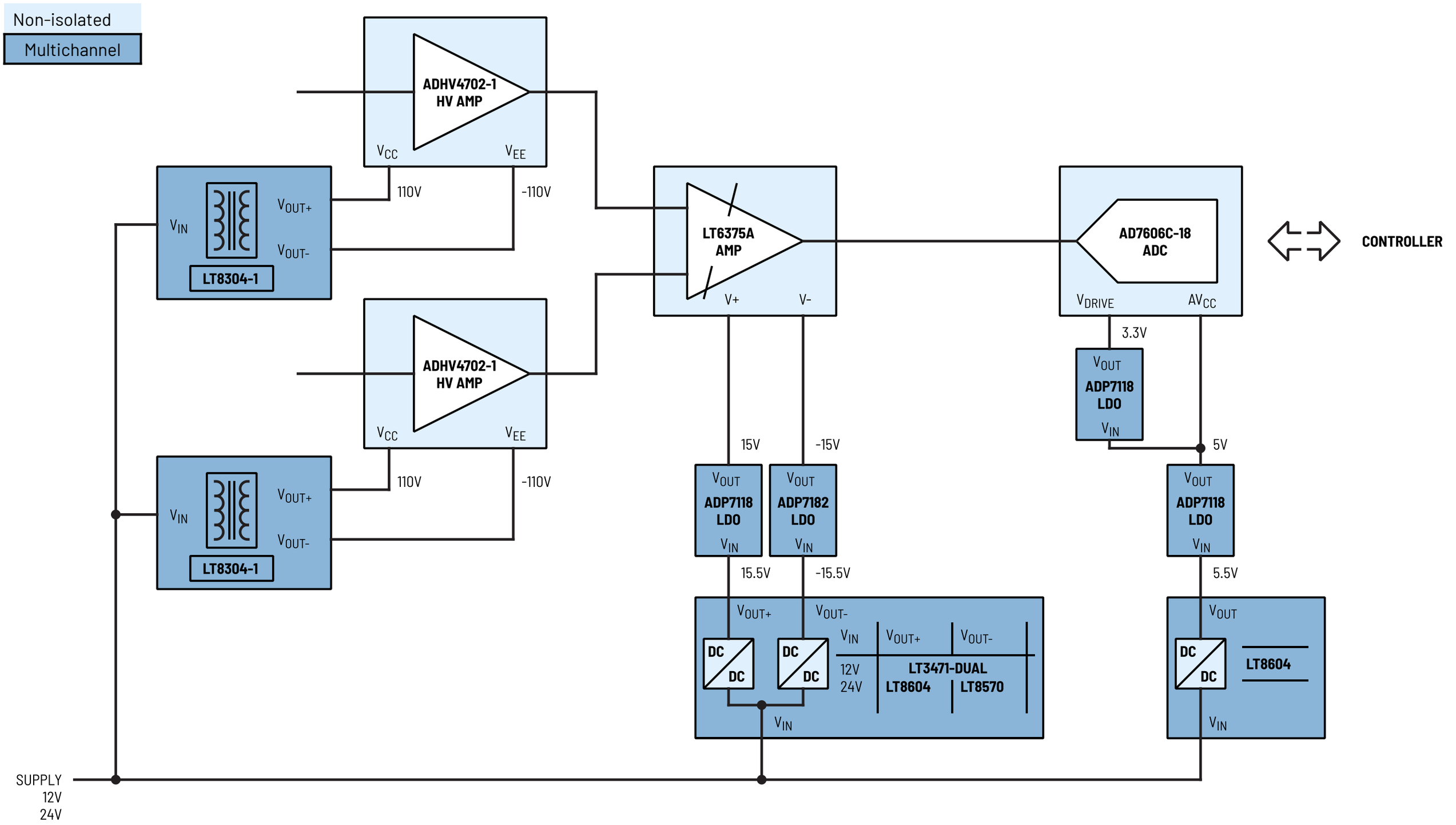
APPENDIX | Parts Guide | Power Requirements | **USER GUIDE**

High Common-Mode Current Measurement

Highest Initial Accuracy

Non-isolated

Multichannel



Precision High Voltage

High Common-Mode Current Measurement

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Multichannel

PART #	DESCRIPTION
LT8304-1	100VIN Micropower No-Opto Isolated Flyback Converter with 150V/2A Switch
LT3471	Dual 1.3A, 1.2MHz Boost/Inverter in 3mm ×3mm DFN
LT8570	Boost/SEPIC/Inverting DC/DC Converter with 65V Switch, Soft-Start and Sync.
LT8604	High Efficiency 42V/120mA Synchronous Buck
ADP7118	20V, 200mA, Low Noise, CMOS LDO Linear Regulator
ADP7182	–28V, –200mA, Low Noise, Linear Regulator

POWER REQUIREMENTS

PARAMETER	STAGES	PMU DAC & ADC		High-Voltage Amplifier		Difference Amplifier	
	Part #	AD7606C-18		ADHV4702-1		LT6375A	
	Pin	V_{DRIVE}	AV_{CC}	V_{CC}	V_{EE}	V+	V-
Supply Voltage	V	3.3	5	110	-110	15	-15
Supply Current	mA	1.9	50	3.3	-3.3	0.6	-0.6
PSRR	dB	-	60	35 (100kHz)	83 (100kHz)	30 (100kHz)	15 (100kHz)

Note 1: The supply currents indicated are the maximum quiescent current of the supply rails. For overall full load or short circuit current specifications, refer to the datasheets of the signal chain components.

Note 2: The supply voltages indicated are the values for typical applications.

Note 3: Consult the corresponding datasheets for details on power dissipation if needed.

Note 4: The actual supply current requirement shall be multiplied depending on the number of channels on the signal chain.