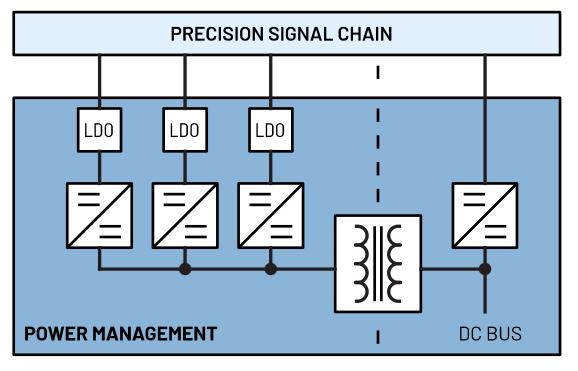


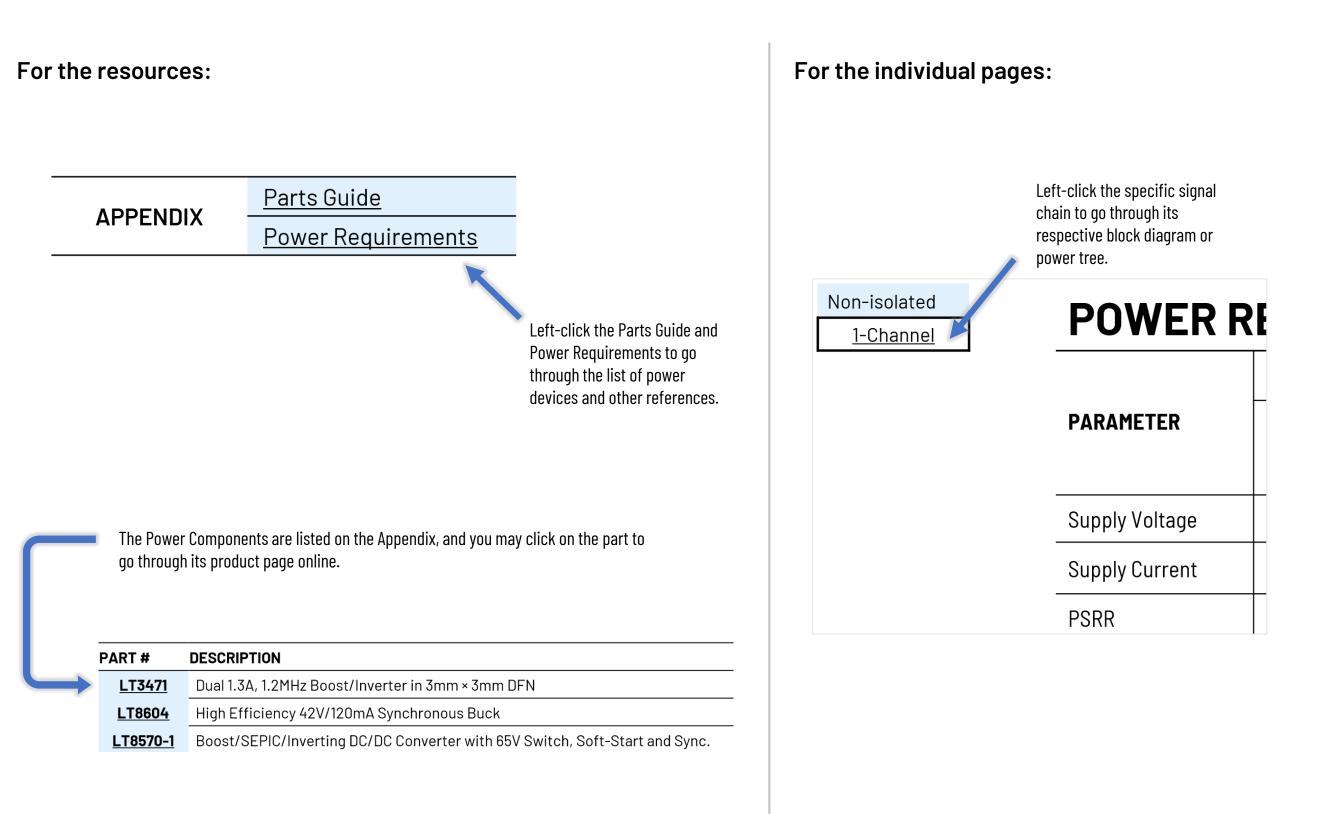
# **POWER SOLUTIONS FOR PRECISION TECHNOLOGY SIGNAL CHAINS**

## PRECISION CURRENT SENSING Current Measurement – Motor Control Inverter High Power Current Transformer Sensor

Rev. 0 | Aug. 2022



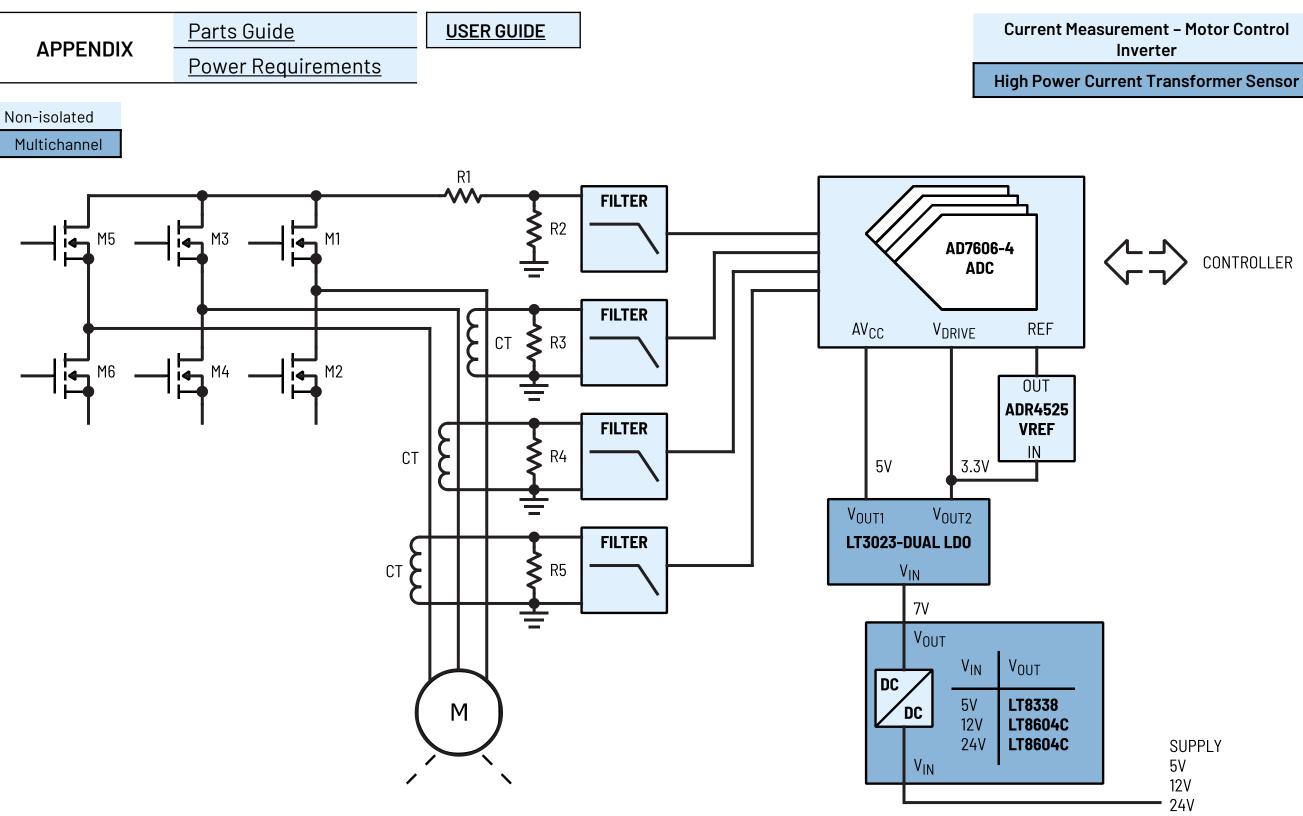
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#### ANALOG DEVICES

#### Precision Current Sensing



### Precision Current Sensing

Current Measurement – Motor Control Inverter

High Power Current Transformer Sensor

Non-isolated

<u>Multichannel</u>

PART #	DESCRIPTION
<u>LT8604</u>	High Efficiency 42V/120mA Synchronous Buck
<u>LT8338</u>	40V, 1.2A Micropower Synchronous Boost Converter with Pass-Thru
<u>LT3023</u>	Dual 100mA, Low Dropout, Low Noise, Micropower Regulator

#### **Precision Current Sensing**

Current Measurement – Motor Control Inverter

High Power Current Transformer Sensor

Non-isolated Multichannel

### **POWER REQUIREMENTS**

	STAGES	Filter	ADC		Reference
PARAMETER	Part #	-	<u>AD7606-4</u>		ADR4525
	Pin		AV <sub>CC</sub>	V <sub>DRIVE</sub>	IN
Supply Voltage	V	-	5	3.3	3.3
Supply Current	mA	_	21		0.95
PSRR	dB	-	130 (900kHz)		80 (1MHz)

**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: (1) power supply rejection ratio (PSRR) and (2) power dissipation.

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