



Q-PRV Series


PCB mount, 0.1inch³, isolated, proportional high voltage DC/DC converter

Wide operating temperature range: -25/+70°C

	<ul style="list-style-type: none"> ➤ 0.5Watt ➤ Output voltage from 100Vdc to 500Vdc ➤ Input voltage 12Vdc or 24Vdc ➤ Output proportional to input ➤ Short circuit protection ➤ Low ripple ➤ No minimum load ➤ 0.5x0.5x0.5" 	
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Features :		
These DC/DC converters are proportional: the output is proportional to the input from 0.7V to maximum input voltage (either 12Vdc or 24Vdc, depending of the model)		
Operating temperature range: -25/+70°C with no derating no heatsink		Isolation: >100 MΩ under 500Vdc
Miniature and lightweight	PCB mount, through holes	Dimension: 0.5 x 0.5 x 0.5 inch
Excellent TC: 0.01%/°C	Excellent Load stability: 20% no load/full load	Low ripple
RoHS compliant product	Potted in an UL resin	

Model number	Output Voltage	Output Current	Ripple	Polarity	Input Voltage	Input Current, No Load	Input Current, Full Load
Q-PRV01-12	0 to 100V	5.00mA	<1.0%	Reversible	12V	<40mA	<100mA
Q-PRV01CT-12	0 to +/-50V	5.00mA	<1.0%	Dual-Reversible	12V	<40mA	<100mA
Q-PRV01-24	0 to 100V	5.00mA	<1.0%	Reversible	24V	<20mA	<50mA
Q-PRV01CT-24	0 to +/-50V	5.00mA	<1.0%	Dual-Reversible	24V	<20mA	<50mA
Q-PRV015-12	0 to 150V	3.33mA	<1.0%	Reversible	12V	<40mA	<100mA
Q-PRV015CT-12	0 to +/-75V	3.33mA	<1.0%	Dual-Reversible	12V	<40mA	<100mA
Q-PRV015-24	0 to 150V	3.33mA	<0.50%	Reversible	24V	<20mA	<50mA
Q-PRV015CT-24	0 to +/-75V	3.33mA	<0.50%	Dual-Reversible	24V	<20mA	<50mA
Q-PRV02-12	0 to 200V	2.50mA	<0.25%	Reversible	12V	<40mA	<100mA
Q-PRV02CT-12	0 to +/-100V	2.50mA	<0.25%	Dual-Reversible	12V	<40mA	<100mA
Q-PRV02-24	0 to 200V	2.50mA	<0.25%	Reversible	24V	<20mA	<50mA

	<p style="text-align: center;">SDS HIGH VOLTAGE 18 avenue Raspail 94100 SAINT MAUR DES FOSSES - France +33(0)1 48 76 88 45 contact@sdshv.com www.sdshv.com</p>	<p>Rev 1.0 – Sept 24</p>
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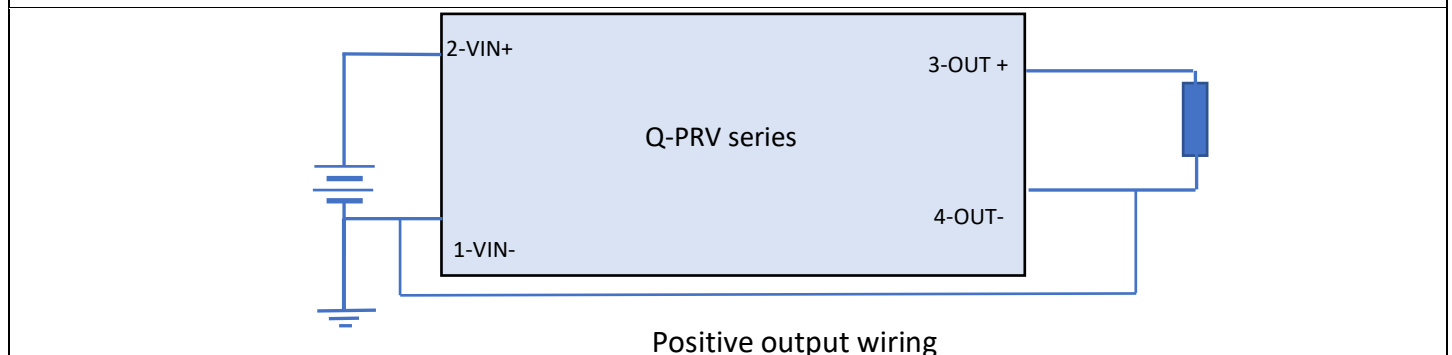
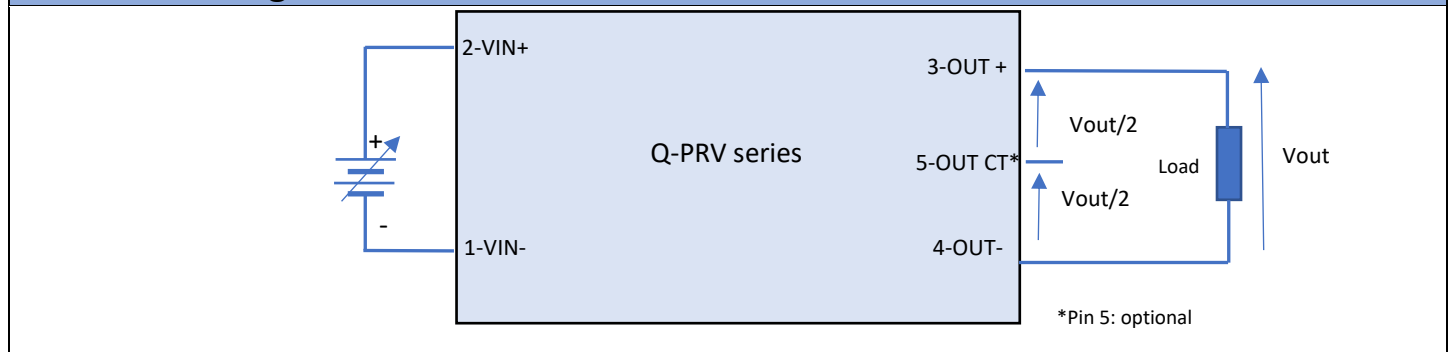
Wide operating temperature range: -25/+70°C

Model number	Output Voltage	Output Current	Ripple	Polarity	Input Voltage	Input Current, No Load	Input Current, Full Load
Q-PRV02CT-24	0 to +/- 100V	2.50mA	<0.25%	Dual-Reversible	24V	<20mA	<50mA
Q-PRV025-12	0 to 250V	2.00mA	<0.25%	Reversible	12V	<40mA	<100mA
Q-PRV25CT-12	0 to +/- 125V	2.00mA	<0.25%	Dual-Reversible	12V	<40mA	<100mA
Q-PRV025-24	0 to 250V	2.00mA	<0.25%	Reversible	24V	<20mA	<50mA
Q-PRV25CT-24	0 to +/- 125V	2.00mA	<0.25%	Dual-Reversible	24V	<20mA	<50mA
Q-PRV05-12	0 to 500V	1.00mA	<0.15%	Reversible	12V	<40mA	<100mA
Q-PRV05CT-12	0 to +/- 250V	1.00mA	<0.15%	Dual-Reversible	12V	<40mA	<100mA
Q-PRV05-24	0 to 500V	1.00mA	<0.15%	Reversible	24V	<20mA	<50mA
Q-PRV05CT-24	0 to +/- 250V	1.00mA	<0.15%	Dual-Reversible	24V	<20mA	<50mA

Pin function

Input	#1: Supply (IN-) #2: 0V supply (IN+)
Output	#3: Output Return (OUT+) #4: Output (OUT-) #5: Center tape (OUT CT) (optional)

Functional diagram



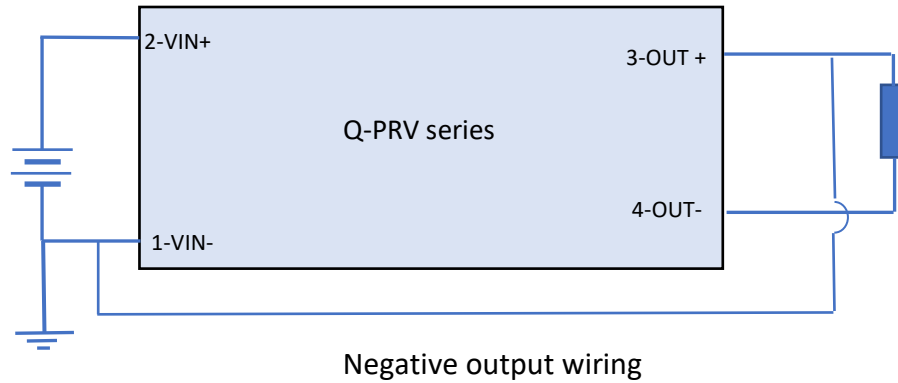
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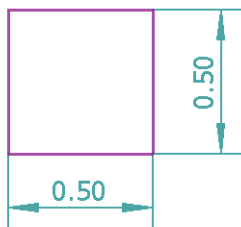
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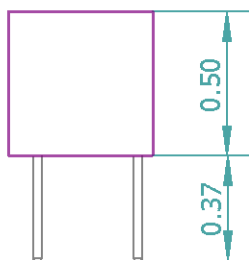


Mechanical details (not to scale) - All dimensions in inch

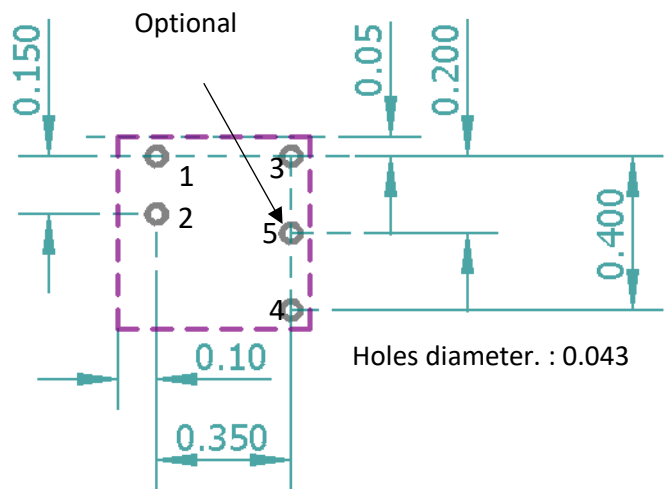
TOP VIEW



FRONT VIEW



PCB LAYOUT



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