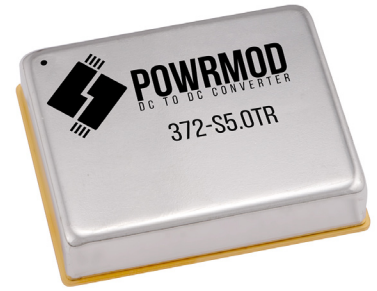




20 WATT ULTRA WIDE INPUT DC-DC CONVERTERS COMBINE FLEXIBLE APPLICATION VOLTAGE RANGE AND DUAL INPUT SOURCE SELECTION WITH 461F EMI PERFORMANCE



FEATURES/BENEFITS

- **Self-contained DC-DC Converter:** Fully Functional; Needs No Additional External Capacitors or Components
- **6 Sided Metal Case:** Shields Against Radiated Emissions and Susceptibility
- **Internal Multi-mode EMI Filter:** Limits Conducted Emissions to MIL-STD-461F Requirements
- **250kHz Current Mode Flyback Topology:** Fully Regulated Output With Low Ripple and Fast Transient Response Time
- **On-Off Control Function:** Connecting On-Off Input to VinRTN Inhibits Output
- **Auto Input Select:** Automatically Operates From the Higher of Two Redundant Inputs
- **Short Circuit Limited:** Protected Against Output Overloads and Short Circuits
- **Fully Isolated:** Inputs to Outputs and Case 500VDC, Outputs to Case 100VDC
- **Transients Tolerant:** Works Through Any Voltage Excursion Within the Input Range
- **Serves Dual DC Inputs:** Operates Seamlessly From Any MIL-STD-704 DC Source Power
- **Compact, Encapsulated Construction:** Small Footprint with Long Life and Reliable Operation in Severe Operational Environments
- **Two Grades Available:** Economical, Effective Tailoring to Applications Requirements

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MODEL: 372

INPUT RANGE : 16-400VDC

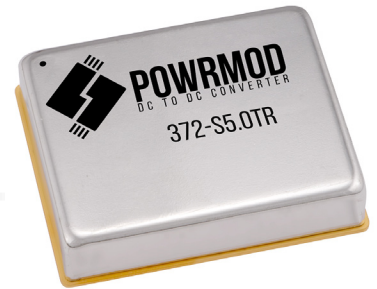
SINGLE OUTPUT

PARAMETER	CONDITION	UNITS	OUTPUTS								
Vout	Setpoint +/- 2%	DC Volts	3.3	5.0	5.2	10	12	15	24	28	48
Iout	Vin min-max	Amperes	6.06	4.00	3.85	2.00	1.67	1.34	0.85	0.70	0.40
Efficiency	Rated Load	Percent Min	68	72	72	76	76	78	79	79	82
Line Reg	Vin min-max	mV max	20	30	30	30	50	50	50	75	75
Load Reg	10% to Rated Load	mV max	30	50	50	50	75	75	120	120	150
Vout Ripple	Rated Load, 20MHz BW	mVpp max	40	50	50	75	100	100	150	150	150

DUAL OUTPUT

PARAMETER	CONDITION	UNITS	OUTPUTS			
Vout	Setpoint +/- 2%	DC Volts	+/-5	+/-12	+/-15	3.3/5
Iout	Vin min-max	Amperes	+/-2	+/-0.85	+/-0.67	3/2
Efficiency	Rated Load	Percent Min	74	78	78	72
Line Reg	Vin min-max	mV max	40	50	75	40
Load Reg	10% to Rated Load	mV max	50	120	150	50
Vout Ripple	Rated Load, 20MHz BW	mVpp max	100	150	220	100

16-400VDC INPUT DC-DC CONVERTERS



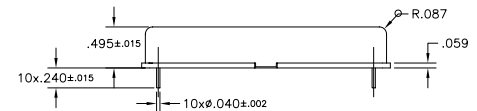
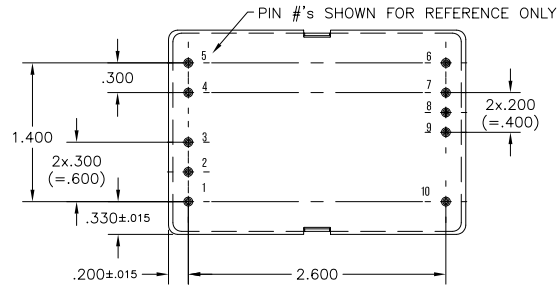
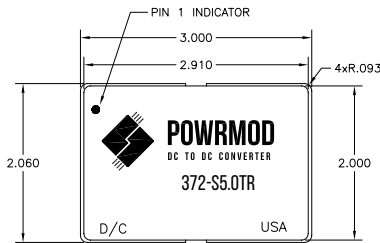
372

MODEL: 372 28VDC

INPUT RANGE : 16-400VDC

MECHANICAL SPECIFICATIONS

Size	3.0 L x 2.00 W x .495 H inch
Enclosure	Full metal, CRS
Construction	Encapsulated sealed
Pins	.040 alloy
Weight	65g typical
Mounting	Thru-Hole PWB (TH) or Chassis (CH) mount, any orientation provided baseplate is heatsunk



PIN FUNCTIONS

	1	2	3	4	5	6	7	8	9	10
Function for Single Outputs	+ Input	+ Input Rtn	Case Gnd	Inhibit	NC	Output Rtn	NC	+ Output	Case Gnd	NC
Function for Dual Outputs	+ Input	+ Input Rtn	Case Gnd	Inhibit	NC	- Output	Output Rtn	+ Output	Case Gnd	NC

DATA 25°C BASEPLATE PRODUCTS AND SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE.

PART NUMBERING CONSTRUCTION KEY

MODEL	OUTPUT TYPE & VOLTAGE	ENCLOSURE	GRADE	
372	<p>SINGLE</p> <p>S3.3 S24</p> <p>S5.0 S28</p> <p>S5.2 S48</p> <p>S10 D3.3/5</p> <p>S12</p> <p>S15</p>	<p>DUAL</p> <p>D5</p> <p>D12</p> <p>D15</p> <p>D3.3/5</p>	<p>MOUNTING</p> <p>T = THRU HOLE</p> <p>C = CHASSIS</p>	<p>GRADE LEVEL</p> <p>C = COMMERCIAL</p> <p>R = RUGGED</p>

EXAMPLE: 372-S5.0TR