POWRMOD
DC TO DC CONVERTERS

20 WATT RUGGEDIZED 5 VOLT INPUT DC-DC CONVERTERS OFFER WIDE SELECTION OF SINGLE, DUAL AND TRIPLE OUTPUTS WITH FULL INPUT/OUTPUT ISOLATION

365

MODEL: 365 5VDC
INPUT RANGE : 4.5-5.5VDC

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
- **200kHz 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
- **Output Voltage Adjust Function:** User Adjustable Vout in +/- 10% Increments Via External Resistor (Single and Dual Outputs)
- **Remote Sense:** Auto Compensates Vout for Load Lead Loss (Single Outputs)
- **Soft Start Delay:** User Adjustable Vout Turn-On Ramp
- **Short Circuit Limited:** Protected Against Output Overloads and Short Circuits
- **Fully Isolated:** Inputs to Outputs and Case 500VDC, Outputs to Case 100VDC
- **SOH Monitor w/Sync:** Internal State of Health Signal Also Accepts External Sync Input
- **Compact, Encapsulated Construction:** Small Footprint with Long Life and Reliable Operation In Severe Operational Environments
- **Two Grades Available:** Economical, Effective Tailoring to Applications Requirements

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	4.00	4.00	3.85	2.00	1.67	1.33	0.83	0.71	0.42
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	125	150	150	220	240

DUAL OUTPUTS

PARAMETER	CONDITION	UNITS	OUTPUTS					
Vout	Setpoint +/- 2%	DC Volts	+/-5	+/-12	+/-15	+/-24	3.3/5	5/12
Iout	Vin min-max	Amperes	+/-2	+/-0.83	+/-0.67	+/-0.22	3/1	2/0.75
Efficiency	Rated Load	Percent Min	74	78	78	82	68	72
Line Reg	Vin min-max	mV max	40	50	75	75	50	75
Load Reg	10% to Rated Load	mV max	50	120	150	175	65	120
Vout Ripple	Rated Load, 20MHz BW	mVpp max	100	150	220	240	100	150

TRIPLE OUTPUTS

PARAMETER	CONDITION	UNITS	OUTPUTS					
Vout	Setpoint +/- 2%	DC Volts	3.3/+-5	3.3/+-12	3.3/+-15	5/+-5	5/+-12	5/+-15
Iout	Vin min-max	Amperes	2/+-0.75	2/+-0.5	2/+-0.5	3/+-1	2.5/+-0.5	2.5/+-0.5
Efficiency	Rated Load	Percent Min	67	67	67	68	70	70
Line Reg	Vin min-max	mV max	50	50	50	75	75	75
Load Reg	10% to Rated Load	mV max	50	50	50	75	75	75
Vout Ripple	Rated Load, 20MHz BW	mVpp max	40	40	40	50	50	50

5VDC INPUT DC-DC CONVERTERS

POWRMOD
DC TO DC CONVERTERS

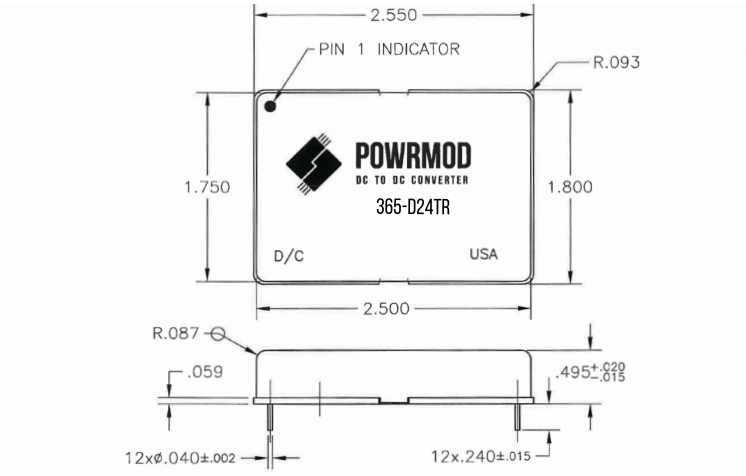
20 WATT RUGGEDIZED 5 VOLT INPUT DC-DC CONVERTERS OFFER WIDE SELECTION OF SINGLE, DUAL AND TRIPLE OUTPUTS WITH FULL INPUT/OUTPUT ISOLATION

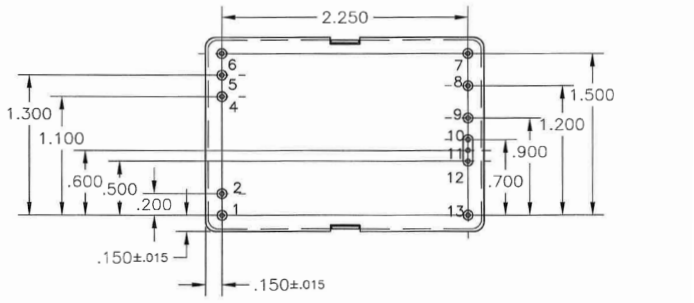
365

MODEL: 365 5VDC
INPUT RANGE : 4.5-5.5VDC

MECHANICAL SPECIFICATIONS

Size	2.55 L x 1.80 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	11	12	13
Function for Single Outputs<10VDC	On-Off Control	SOH/Sync	NU	Case	Vin Rtn	Vin +	- Rem Snse	Vout Rtn	+ Vout	+ Rem Snse	Vout Adj	SSD	Case
Function for Single Outputs>10VDC	On-Off Control	SOH/Sync	NU	Case	Vin Rtn	Vin +	NC	+ Vout	- Vout	NC	Vout Adj	SSD	Case
Function for Dual Outputs	On-Off Control	SOH/Sync	NU	Case	Vin Rtn	Vin +	+/- Vout Cmn Rtn	+ Vout	- Vout	NC	Vout Adj	SSD	Case
Function for Triple Outputs	On-Off Control	SOH/Sync	NU	Case	Vin Rtn	Vin +	+ Sec Vout	+/- SecVout Rtn	- Sec Vout	+ Main Vout	+ Main Vout	SSD	Case

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

PART NUMBERING CONSTRUCTION KEY

MODEL | **OUTPUT TYPE & VOLTAGE** | **ENCLOSURE** | **GRADE**

365

SINGLE
S3.3 S5.0 S5.2 S10 S12 S15 S24 S28 S48

DUAL
D5 D12 D15 D24 D3.3/5 D5/12

TRIPLE
T3.3/5 T3.3/12 T3.3/15 T5/5 T5/12 T5/15

MOUNTING
T = THRU HOLE
C = CHASSIS

GRADE LEVEL
C = COMMERCIAL
R = RUGGED

EXAMPLE: 365-D24TR