

ARTISAN®
TECHNOLOGY GROUP

Your **definitive** source for quality pre-owned equipment.

Artisan Technology Group
(217) 352-9330 | sales@artisantg.com | artisantg.com

Full-service, independent repair center
with experienced engineers and technicians on staff.

We buy your excess, underutilized, and idle equipment
along with credit for buybacks and trade-ins.

Custom engineering
so your equipment works exactly as you specify.

- Critical and expedited services
- In stock / Ready-to-ship
- Leasing / Rentals / Demos
- ITAR-certified secure asset solutions

Expert team | Trust guarantee | 100% satisfaction

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Astrodyne TDI
Now you have power.

Isolated and Regulated 10 WATT Modular DC/DC Converters

FDC10 series



Unit measures 1"W x 2"L x 0.375"H

- Wide 2 : 1 Input Range
- High Efficiency
- Regulated Outputs
- 1600V Isolation
- Full EMI Shielding
- Standard Pinouts

Model Number	Output Voltage	Output Amps	Input Range
SINGLE OUTPUT			
FDC10-12S33	3.3 VDC	2	9-18 VDC
FDC10-24S33		2	18-36 VDC
FDC10-48S33		2	36-72 VDC
FDC10-12S05	5 VDC	2	9-18 VDC
FDC10-24S05		2	18-36 VDC
FDC10-48S05		2	36-72 VDC
FDC10-12S12	12 VDC	0.83	9-18 VDC
FDC10-24S12		0.83	18-36 VDC
FDC10-48S12		0.83	36-72 VDC
FDC10-12S15	15 VDC	0.67	9-18 VDC
FDC10-24S15		0.67	18-36 VDC
FDC10-48S15		0.67	36-72 VDC
DUAL OUTPUT			
FDC10-12D05	+/-5 VDC	+/-1	9-18 VDC
FDC10-24D05		+/-1	18-36 VDC
FDC10-48D05		+/-1	36-72 VDC
FDC10-12D12	+/-12 VDC	+/-0.416	9-18 VDC
FDC10-24D12		+/-0.416	18-36 VDC
FDC10-48D12		+/-0.416	36-72 VDC
FDC10-12D15	+/-15 VDC	+/-0.333	9-18 VDC
FDC10-24D15		+/-0.333	18-36 VDC
FDC10-48D15		+/-0.333	36-72 VDC

ASTRODYNE USA: 1-800-823-8082
ASTRODYNE PACIFIC: 886-2-26983458

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INPUT SPECIFICATIONS

Input Voltage Ranges:	12 VDC Nominal	9-18 VDC
	24 VDC Nominal	18-36 VDC
	48 VDC Nominal	36-72 VDC
Input Filter	Pi Type	

OUTPUT SPECIFICATIONS

Voltage and Current	See Selection Chart	
Load Regulation	singles: +/-1%	
10% - FL	duals: +/-2%	
Line Regulation	+/-1%	
Temperature Coefficient	+/-0.02%/DegC	
Ripple/Noise(Single/Dual)	(50 / 75) mV Pk-Pk, typ	
Voltage Stability	+/- 2%	
Voltage Balance, Dual	+/-1%	
Transient Response Recovery		
25% Load Step Change		500 microSeconds
Short Circuit Protection	Continuous, self-recovering	
Overvoltage Protection Threshold:	3.3V Output	3.9Volts
	5V Output	6.2Volts
	12V Output	15Volts
	15V Output	18Volts

GENERAL SPECIFICATIONS

Input-Out Isolation	1600VDC
In/Out Capacitance	1000 pF
Isolation Resistance	10000 M Ohms
Efficiency	80%, typ
Switching Frequency	300Khz

ENVIRONMENTAL SPECIFICATIONS

Oper. Temperature	-25 to +71 DegC(FL)
Storage Temperature	-55 to +125 DegC *
Maximum Case Temp	110 DegC *
MTBF	1.97 MHrs
	MIL-HDBK-217F TA=25C FL

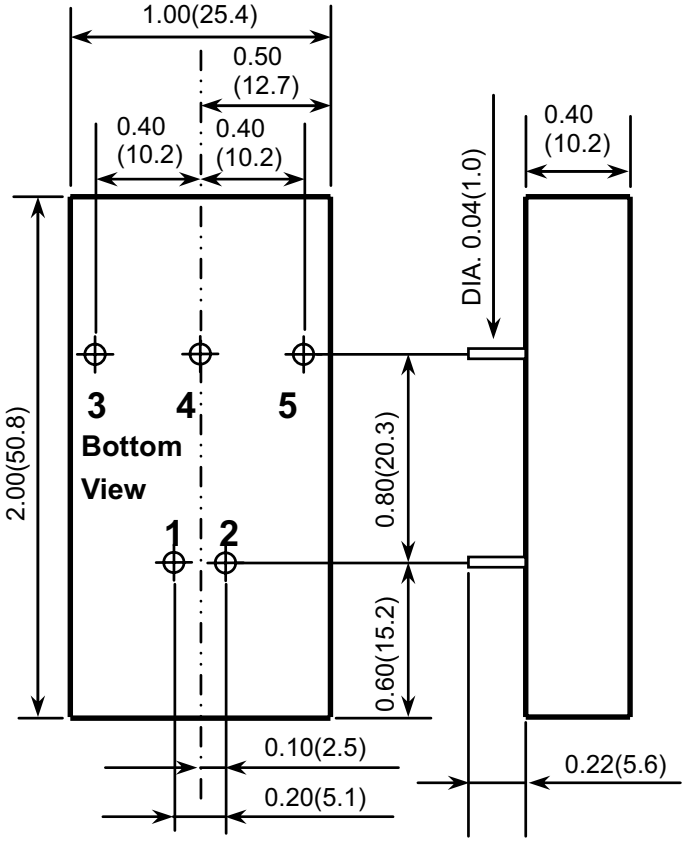
PHYSICAL SPECIFICATIONS

Case Material	Nickel-Coated Copper
	Non-Conductive Base
Construction	Fully Encapsulated
Weight	1.1 oz, (30g)

All specifications are typical at nominal input, full load, and 25DegC unless otherwise noted

* These are stress ratings. Exposure of the devices to any of these conditions may adversely affect long term reliability. Proper operation under conditions other than the standard operating conditions is neither warranteed nor implied.

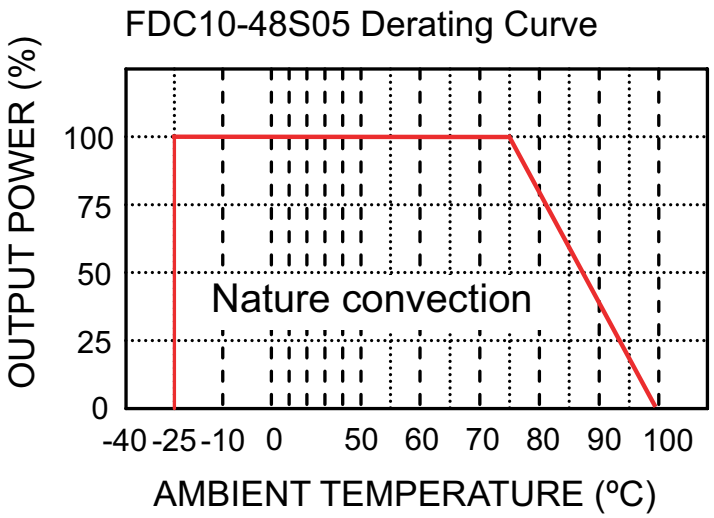
MECHANICAL DIMENSIONS



1. All dimensions in Inches (mm)
   Tolerance x.xx±0.02(x.x±0.5)
2. Pin Pitch tolerance ±0.014(0.35)

Pin #	Single Outputs	Dual Outputs
1	+ Input	+ Input
2	- Input	- Input
3	+ Output	+ Output
4	No Pin	Common
5	- Output	- Output

OUTPUT DERATING CURVE



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Artisan Technology Group is an independent supplier of quality pre-owned equipment

Gold-standard solutions

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We buy equipment

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