

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

FDC60 Series



Unit measures 2.76"W x 3.94"L x 0.75"H

MODEL SELECTIONS

Output Voltage	Output Amps	Input Range	Model Number	Price 1	Price 10
SINGLE OUTPUT					
3.3 VDC	15	9-18 VDC	FDC60-12S33	\$109	\$104
	15	18-36 VDC	FDC60-24S33	\$109	\$104
	15	36-72 VDC	FDC60-48S33	\$109	\$104
5 VDC	12	9-18 VDC	FDC60-12S05	\$109	\$104
	12	18-36 VDC	FDC60-24S05	\$109	\$104
	12	36-72 VDC	FDC60-48S05	\$109	\$104
12 VDC	5	9-18 VDC	FDC60-12S12	\$109	\$104
	5	18-36 VDC	FDC60-24S12	\$109	\$104
	5	36-72 VDC	FDC60-48S12	\$109	\$104
15 VDC	4	9-18 VDC	FDC60-12S15	\$109	\$104
	4	18-36 VDC	FDC60-24S15	\$109	\$104
	4	36-72 VDC	FDC60-48S15	\$109	\$104
DUAL OUTPUT					
3.3 / 5 VDC	6 / 6	9-18 VDC	FDC60-12D3305	\$114	\$109
	6 / 6	18-36 VDC	FDC60-24D3305	\$114	\$109
	6 / 6	36-72 VDC	FDC60-48D3305	\$114	\$109
+/-5 VDC	+10 / -2	9-18 VDC	FDC60-12D05	\$114	\$109
	+10 / -2	18-36 VDC	FDC60-24D05	\$114	\$109
	+10 / -2	36-72 VDC	FDC60-48D05	\$114	\$109
+/-12 VDC	+/-2.5	9-18 VDC	FDC60-12D12	\$114	\$109
	+/-2.5	18-36 VDC	FDC60-24D12	\$114	\$109
	+/-2.5	36-72 VDC	FDC60-48D12	\$114	\$109
+/-15 VDC	+/-2	9-18 VDC	FDC60-12D15	\$114	\$109
	+/-2	18-36 VDC	FDC60-24D15	\$114	\$109
	+/-2	36-72 VDC	FDC60-48D15	\$114	\$109

**Contact
Factory
for
High Volume
Pricing**

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

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 (10%-FL)	singles/duals: +/-0.5%
xxD3305 Models	3.3V output min load=800mA
Line Regulation	singles/duals: +/-0.5%
Temperature Coefficient	+/-0.02%/DegC
Ripple/Noise	1% Pk-Pk of Vout, typ
Voltage Stability (singles/duals)	+/- 2%
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

On/Off Control	(Ref to - Input pin) Logic "1"/Open=ON Logic "0"/GND=OFF
Input-Out Isolation	1600VDC
Isolation Resistance	10000 M Ohms
Efficiency	83%, typ
Switching Frequency	200Khz, typ

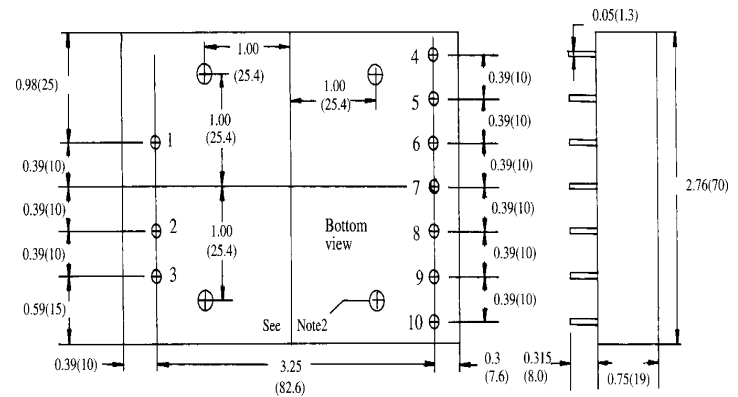
ENVIRONMENTAL SPECIFICATIONS

Oper. Temperature	-25 to +71 DegC(see derate)
Storage Temperature	-55 to +125 DegC *
Maximum Case Temp	100 DegC *
MTBF	125 kHrs
	MIL-HDBK-217F TA=25C FL

PHYSICAL SPECIFICATIONS

Case Material	Nickel-Coated Copper
Construction	Non-Conductive Base
Weight	Fully Encapsulated 9.71 oz, (272g)

MECHANICAL DIMENSIONS



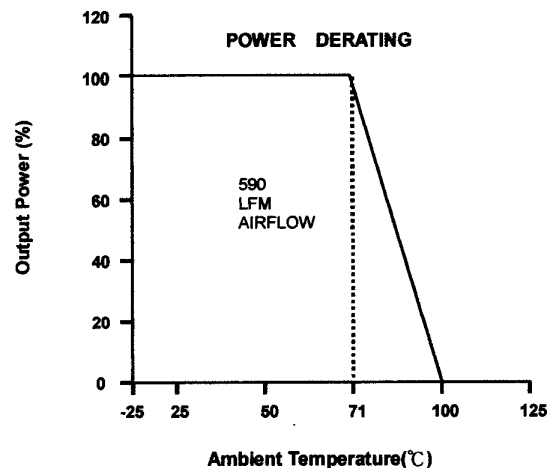
Notes: 1.All dimensions in inches(min).

2.Mounting inserts:4-40x.10(2.5)Deep.

PIN PITCH TOLERANCE $\pm 0.5\text{mm}$

Pin #	Single	Dual
1	+ Vin	+ Vin
2	- Vin	- Vin
3	Ctrl	Ctrl
4	Trim	Trim
5	+ Vout	+ Vout or 3.3 out
6	+ Vout	+ Vout or 3.3 out
7	Com	Com
8	Com	Com
9	No Pin	- Vout or 5 out
10	No Pin	- Vout or 5 out

OUTPUT DERATING CURVE



Astrodyne products are not authorized or warranted for use as critical components in life support systems, equipment used in hazardous environments, nuclear controls systems, or other mission-critical applications.

* 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 warranted nor implied.