



Unit measures 1.5"W x 2"L x 0.45"H

- Wide 4:1 Input Range
- 9 to 36V or 18 to 75V Available
- High Efficiency
- Regulated Outputs
- 1500VDC Isolation
- Integral Finned Heatsink
- EN60950-1 & UL60950-1 Approved



Model Number	Output Voltage	Output Amps	Input Range
--------------	----------------	-------------	-------------

SINGLE OUTPUT

ASD15H-12S3	3.3 VDC	3.75	9-18VDC
ASD15H-48S3		3.75	20-75VDC
ASD15H-12S5	5 VDC	3	9-18VDC
ASD15H-48S5		3	20-75VDC
ASD15H-12S12	12 VDC	1.25	9-18VDC
ASD15H-48S12		1.25	20-75VDC
ASD15H-12S15	15 VDC	1	9-18VDC
ASD15H-48S15		1	20-75VDC

DUAL OUTPUT

ASD15H-12D5	+/-5 VDC	+/-1.5	9-18VDC
ASD15H-48D5		+/-1.5	20-75VDC
ASD15H-12D12	+/-12 VDC	+/-0.62	9-18VDC
ASD15H-48D12		+/-0.62	20-75VDC
ASD15H-12D15	+/-15 VDC	+/-0.5	9-18VDC
ASD15H-48D15		+/-0.5	20-75VDC

Isolated and Regulated 15 WATT Open Frame DC/DC Converter

ASD15H series

INPUT SPECIFICATIONS

Input Voltage, Nominal	12VDC	48VDC
Input Voltage Ranges	9-18	20-75 VDC
Input Surge Voltage	50V (12V Models), *	
	100V (48V Models), *	
	10 mS duration, min.	

OUTPUT SPECIFICATIONS

Voltage and Current	See Selection Chart
Load Regulation	single: +/- 0.5%
20% - FL	duals: +/-1%, +/-3% (5V mod)
Preset Accuracy	single: $\pm 3\%$ max.
	duals: $\pm 4\%$ max.
Line Regulation	single: +/- 0.5%
	duals: +/- 1%
Trim Range	0.5V min, 0.65V typ
Temperature Coefficient	+/-0.01%/°C
Ripple/Noise (Note 1)	100mV Pk-Pk, typ.
Overvoltage Protection	Clamp, 130-150% *
Voltage Stability	+/- 0.05%, max
Transient Response	12V: $\pm 4\%$, max
	15V: $\pm 3\%$, max
	All others: $\pm 2\%$, max
Short Circuit Protection	Clamp, need to release load

GENERAL SPECIFICATIONS

On/Off Control	(Ref to - Input pin)
	Logic "1"/Open=ON
	Logic "0"/GND=OFF
Shutdown Idle Current	15mA
Input-Out Isolation	1500VDC (48V)
	500 VDC (12V)
In/Out Capacitance	1000 pF
Efficiency at nom. Input	12V: 72%-80%, typ.
	48V: 80%-86%, typ.
Switching Frequency	450Khz
Safety	UL/EN60950-1 2nd Edition

ENVIRONMENTAL SPECIFICATIONS

Oper. Temperature	-25 to +71°C(FL)
Storage Temperature	-40 to +125°C *
Maximum Case Temp	110°C *
Input Fusing	12V: 4A, 48V: 2A
MTBF	1,000,000 Hrs
	Mil Std 217, 25°C
Shock/Vibration	To MIL-STD 810°C

PHYSICAL SPECIFICATIONS

Heatsink Material	Aluminum
Construction	Open Frame
Weight	.93 oz, (26g)

NOTES

1. Ripple & Noise is measured by using a 20MHz bandwidth oscilloscope and terminating the output with a 47uF electrolytic capacitor paralleled with a 0.1uF ceramic capacitor.

All specifications are typical at nominal input, full load, and 25°C 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 warranted nor implied.

Downloaded from Arrow.com.