

# 68D8 – SERIES

## WIDE INPUT VOLTAGE RANGE 8 WATT DC-DC CONVERTER

### FEATURES

- 2:1 wide Input voltage: 9-18V, 18-36V, 36-72V
- 8 WATT 24 pin DIL (1.25 x 0.8 x 0.4 inches) package.
- Efficiency to 82%
- PI input filter



### GENERAL SPECIFICATIONS

Switching frequency	: 300KHz TYP.
Output ripple and noise	: 100mVp-p (20MHz B.W.)
Isolation voltage	: 1600VDC
Isolation resistance	: 10 <sup>9</sup> ohms
Storage temperature range	: -40°C to 100°C
Operating temperature range	: -25°C to +71°C
Short circuit protection	: Continuous
Case material	: Black coated copper with Non-conductive base

### ELECTRICAL SPECIFICATIONS

Input temperature range	: 12V nominal ...9-18V : 24V nominal ...18-36V : 48V nominal ...36-72V
Output voltage accuracy	: ±2%
Line regulation	: ±0.5%
Load regulation (Single)	: ±0.5% (F.L. to 10% Load)
Load regulation (DUAL)	: ±1.0% (F.L. to 1 / 4 Load)
Efficiency	: see table

Part Number	Input Voltage Range (VDC)	Output Voltage (VDC)	Output Current (mA)	Input Current (mA)		Efficiency (%)
				No Load	Full Load	
68D8-12S03R	9-18	3.3	2000	-	679	81
68D8-12S05R	9-18	5	1500	-	762	82
68D8-12S12R	9-18	12	666	-	774	86
68D8-12S15R	9-18	15	533	-	803	83
68D8-12D05R	9-18	±5	±800	-	803	83
68D8-12D12R	9-18	±12	±333	-	793	84
68D8-12D15R	9-18	±15	±267	-	795	84
68D8-24S03R	18-36	3.3	2000	-	344	80
68D8-24S05R	18-36	5	1500	-	372	84
68D8-24S12R	18-36	12	666	-	401	83
68D8-24S15R	18-36	15	533	-	401	83
68D8-24D05R	18-36	±5	±800	-	402	83
68D8-24D12R	18-36	±12	±333	-	392	85
68D8-24D15R	18-36	±15	±267	-	393	85
68D8-48S03R	36-72	3.3	2000	-	172	80
68D8-48S05R	36-72	5	1500	-	188	83
68D8-48S12R	36-72	12	666	-	198	84
68D8-48S15R	36-72	15	533	-	198	84
68D8-48D05R	36-72	±5	±800	-	198	84
68D8-48D12R	36-72	±12	±333	-	196	85

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### PIN CONNECTION

PIN	SINGLE	DUAL
2, 3	-INPUT	-INPUT
9	NC	COMMON
11	NC	-OUTPUT
14	+OUTPUT	+OUTPUT
16	-OUTPUT	COMMON
22, 23	+INPUT	+INPUT

### MARKING AND DIMENSION

Dimensions: inches/mm unless otherwise specified, all tolerances are  $\pm 0.05/\pm 0.13$

