International Coil, Inc.
ACUTE POWER™

ICI08 SERIES

WIDE INPUT VOLTAGE RANGE
8 WATTS DC-DC CONVERTER

FEATURES

- 2:1 WIDE INPUT VOLTAGES:9-18V,18-36V,36-72V
- 8 WATTS 24PIN DIL(1.25x0.8x0.4inches) PACKAGE
- EFFICIENCY TO 82%
- PI INPUT FILTER

GENERAL SPECIFICATIONS

- SWITCHING FREQUENCY : 300KHz TYP.
- OUTPUT RIPPPLE & NOISE : 100mVp-p(20MHz B.W.)
- ISOLATION VOLTAGE : 1600VDC
- ISOLATION RESISTANCE :10^9 ohms
- STORAGE TEMPERATURE RANGE :-40℃ TO 100℃
- OPERATING TEMPERATURE RANGE :-25℃ TO +71℃
- SHORT CIRCUIT PROTECTION : CONTINUOUS
- CASE MATERIAL : BLACK COATED COPPER WITH NON-CONDUCTIVE BASE

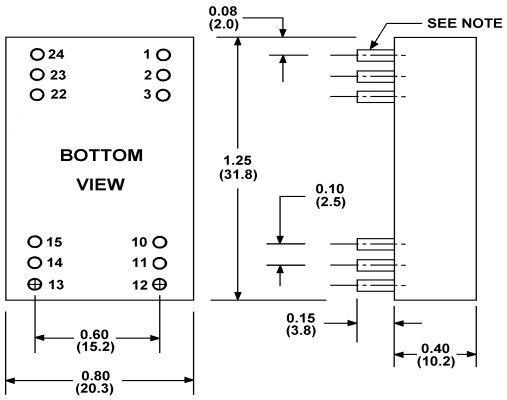
ELECTRICAL SPECIFICATIONS

- INPUT VOLTAGE 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 N0.	INPUT VOLTAGE	OUTPUT VOLTAGE	OUTPUT CURRENT	INPUT CURRENT		EFFICIENCY (%)
				NO LOAD	FULL LOAD	
ICI08-12S03R	9-18VDC	3.3VDC	2000mA	-	679mA	81
ICI08-12S05R	9-18VDC	5VDC	1500mA	-	762mA	82
ICI08-12S12R	9-18VDC	12VDC	666mA	-	774mA	86
ICI08-12S15R	9-18VDC	15VDC	533mA	-	803mA	83
ICI08-12D05R	9-18VDC	±5VDC	±800mA	-	803mA	83
ICI08-12D12R	9-18VDC	±12VDC	±333mA	-	793mA	84
ICI08-12D15R	9-18VDC	±15VDC	±267mA	-	795mA	84
ICI08-24S03R	18-36VDC	3.3VDC	2000mA	-	344mA	80
ICI08-24S05R	18-36VDC	5VDC	1500mA	-	372mA	84
ICI08-24S12R	18-36VDC	12VDC	666mA	-	401mA	83
ICI08-24S15R	18-36VDC	15VDC	533mA	-	401mA	83
ICI08-24D05R	18-36VDC	±5VDC	±800mA	-	402mA	83
ICI08-24D12R	18-36VDC	±12VDC	±333mA	-	392mA	85
ICI08-24D15R	18-36VDC	±15VDC	±267mA	-	393mA	85
ICI08-48S03R	36-72VDC	3.3VDC	2000mA	-	172mA	80
ICI08-48S05R	36-72VDC	5VDC	1500mA	-	188mA	83
ICI08-48S12R	36-72VDC	12VDC	666mA	-	198mA	84
ICI08-48D05R	36-72VDC	±5VDC	±800mA	-	198mA	84
ICI08-48D12R	36-72VDC	±12VDC	±333mA	-	196mA	85

International Coil Inc. 15 Jonathan Drive, Unit 1, Brockton, MA 02301

MARKINGS & DIMENSIONS



PIN CONNECTIONS

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

Dimensions:inches/mm

Unless otherwise specified, all tolerances are **±**.005/**±**0.13