



12WATT ICI68D12 WIDE INPUT SERIES

FEATURES:

- 12W DIL Package**
- 2:1 Wide Input Range
- 100% Burned In
- High Efficiency
- UL 94V-0 Package Material
- Custom Solutions available
- 3 years warranty

ROHS Compliant

Specifications typical at TA=25C, nominal input voltage and rated output current unless otherwise specified.

Part Number ICI68D12 Series	Input Voltage	Output Voltage	Output Current	Input current		Efficiency
	Vdc	Vdc	mA	No Load	Full Load	%
ICI68D12-12S03RNL	9-18	3.3	3500	60	1203	80
ICI68D12-12S05RNL	9-18	5	2400	60	1220	82
ICI68D12-12S12RNL	9-18	12	1000	60	1205	83
ICI68D12-12S15RNL	9-18	15	800	60	1205	83
ICI68D12-12D05RNL	9-18	+/-5	+/-1200	60	1205	83
ICI68D12-12D12RNL	9-18	+/-12	+/-500	60	1205	83
ICI68D12-12D15RNL	9-18	+/-15	+/-400	60	1205	83
ICI68D12-24S03RNL	18-36	3.3	3500	50	602	80
ICI68D12-24S05RNL	18-36	5	2400	50	610	82
ICI68D12-24S12RNL	18-36	12	1000	50	602	83
ICI68D12-24S15RNL	18-36	15	800	50	602	83
ICI68D12-24D05RNL	18-36	+/-5	+/-1200	50	602	83
ICI68D12-24D12RNL	18-36	+/-12	+/-500	50	602	83
ICI68D12-24D15RNL	18-36	+/-15	+/-400	50	602	83
ICI68D12-48S03RNL	36-75	3.3	3500	40	301	80
ICI68D12-48S05RNL	36-75	5	2400	40	305	82
ICI68D12-48S12RNL	36-75	12	1000	40	301	83
ICI68D12-48S15RNL	36-75	15	800	40	301	83
ICI68D12-48D05RNL	36-75	+/-5	+/-1200	40	301	83
ICI68D12-48D12RNL	36-75	+/-12	+/-500	40	301	83
ICI68D12-48D15RNL	36-75	+/-15	+/-400	40	301	83



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Output Specifications	
Voltage Setpoint Accuracy Single/Dual	+/-2% Max
Temperature Coefficient	+/-0.05%/C
Ripple & Noise (20MHz BW (1))	100mVp-p max
Line Regulation (2)	+/-0.5% max
Load Regulation (3)	+/-0.5% max
Minimum Load	10% of Full Load
Short Circuit Protection	Continuous
Short Circuit Restart	Automatic
Over Load Protection	150% Typ.
Transient Response (4)	350uS max

All Specifications typical at nominal line, full load, and 25C unless otherwise noted.

(1) measured with 1uF ceramic capacitor connect to the output pins.

(2)High line to Low line

(3)Load Regulation is for output load current change from 25% to 100%

(4)Load Regulation is for output load current change from 25% to 100%

Input Specifications	
Input Voltage Range	2:1 Input Range
Input Filter	Pi Network
Protection	Fuse Recommended
General Specifications	
Efficiency	80% min
Isolation Voltage (1)	1500VDC
Isolation Resistance	10n min
Switching Frequency	400KHz typ
MTBF (2)	>900000 Hrs.
Weight	17.5g Typ
Case Material	Five-side shielded case
Case Size	31.8mm 20.3mm 12.2mm
Potting Material	Epoxy (UL94-V0)
ENVIRONMENTAL	
Operating Temperature	-40C to +75C
Storage Temperature	-55C to +125C
Case Temperature	+95C max
Humidity	95% max
Cooling	Free Air Convection

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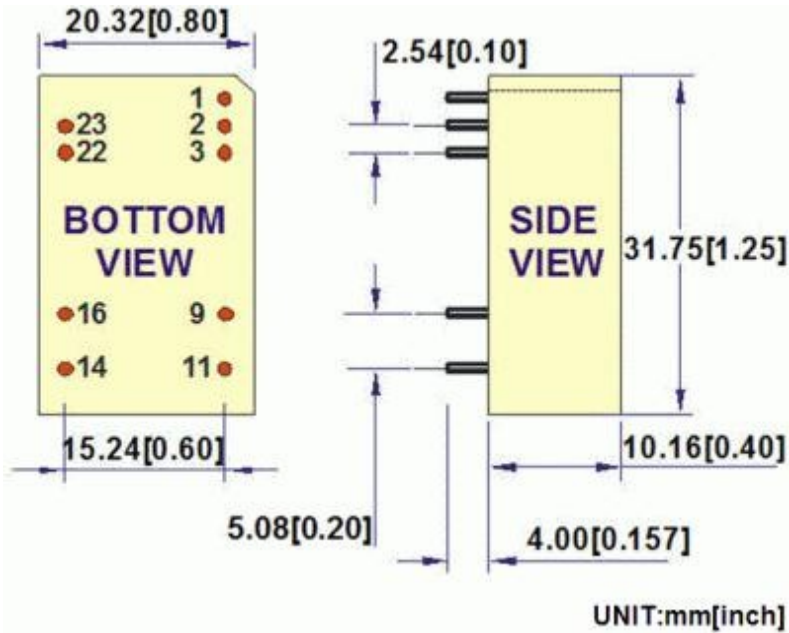
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MARKINGS AND DIMENSIONS



PIN Connection

PIN	SINGLE	DUAL
1	Remote On/Off	Remote On/Off
2	-Vin	-Vin
3	-Vin	-Vin
9	NC	Common
11	NC	-Vout
14	+Vout	+Vout
16	-Vout	Common
22	+Vin	+Vin
23	+Vin	+Vin

EXTERNAL CAPACITANCE REQUIREMENTS:

To meet the reflected ripple requirements of the converter, an input impedance of less than 0.5 ohm from DC to 100KHz is required. External output capacitance is not required for operation, however, it is recommended that 10uF tantalum and 0.1uF ceramic capacitance be selected for reduced system noise.

Additional output capacitance may be added for increased filtering, but should not exceed 100uF.