

International Power Sources, Inc.

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DC/DC Converters



WE Series: 20 WATT Wide Input Range

FEATURES

- 2:1 Input Range
- 500 VDC Isolation
- Efficiency to 86%
- Input π Filter
- Fully Regulated Outputs
- Surface Mount Package Option

MODELS CHART

MODEL NUMBER	INPUT VOLTAGE RANGE	OUTPUT VOLTAGE	OUTPUT CURRENT	INPUT CURRENT		% EFF
				NO LOAD	FULL LOAD	
WE320	18-36VDC	2.5VDC	5000mA	30mA	645mA	81
WE300	18-36VDC	3.3VDC	5000mA	20mA	828mA	83
WE301	18-36VDC	5VDC	4000mA	20mA	992mA	84
WE420	36-72VDC	2.5VDC	5000mA	25mA	318mA	82
WE400	36-72VDC	3.3VDC	5000mA	25mA	410mA	84
WE401	36-72VDC	5VDC	4000mA	25mA	485mA	86

NOTE: NOMINAL INPUT VOLTAGE IS 24VDC FOR WE3XX MODELS AND 48VDC FOR WE4XX MODELS.

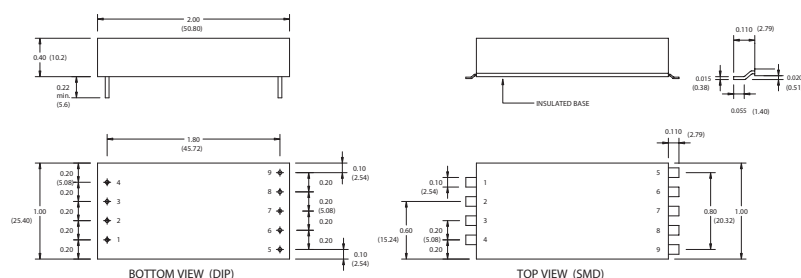
FOR OPTIONAL SMT VERSION:
ADD SUFFIX "M" TO PART NUMBER

Electrical Specifications

All specifications typical at nominal line, full load and 25°C

OUTPUT SPECIFICATIONS	
Voltage Accuracy	+1.0% max
External Voltage Trim Range	+/-10%
Line Regulation (low line to high line)	+0.2% max
Load Regulation (1/4 to full load)	+1.0% max
Transient Response, 25% Step Load Change	<500μ sec.
Ripple & Noise, 20MHz BW	75mV p-p max
Temperature Coefficient	+0.02% /°C
Short Circuit Protection	Continuous
Remote On/Off Control:	
Logic Compatibility	CMOS or Open Collector TTL
E _c On	>5.5VDC or Open Circuit
E _c Off	<1.8VDC
Control Common	Referenced to -V Input
INPUT SPECIFICATIONS	
Input Voltage Range	See Table
Input Filter	π Network
GENERAL SPECIFICATIONS	
Switching Frequency	500kHz typ.
Efficiency	See Table
Isolation (Input-Output)	500VDC (1000 Mohm/80pF)
ENVIRONMENTAL SPECIFICATIONS	
Operating Temperature	-25°C to +71°C
Case Temperature	100°C max
Storage Temperature	-40°C to +100°C
EMI/RFI	Six-sided Continuous Shield
Case Material	Black Coated Copper with Non-Conductive Base

Dimensions and Connections



PIN	THROUGH HOLE PACKAGE	SMT PACKAGE
1	REMOTE ON/OFF	REMOTE ON/OFF
2	NO PIN	NO CONNECT
3	-V INPUT	-V INPUT
4	+V INPUT	+V INPUT
5	TRIM	TRIM
6	NO PIN	NO CONNECT
7	-V OUTPUT	-V OUTPUT
8	NO PIN	NO CONNECT
9	+V OUTPUT	+V OUTPUT

Dimensions in inches (mm)
Specifications subject to change.