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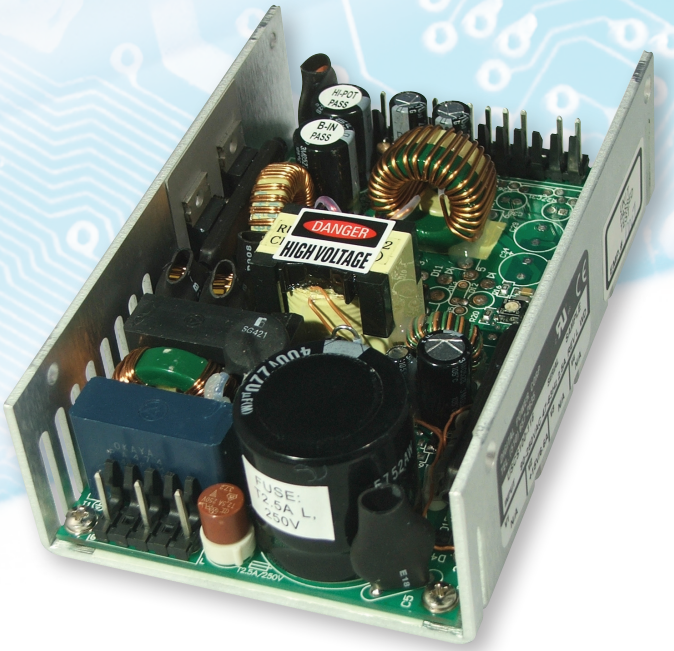
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Find the *Digital Power US100-303* at our website: *Click HERE*

Digital Power
Flexible Power Solutions

US-100 Series

100 Watt Flexible Input / Output Power Supply



Product Description

The US Series of Switching power supplies offer Flexible Input and Output Options to satisfy a wide range of applications. The options include Universal AC / 48 VDC Input / 24 VDC Input ranges and up to four output voltages that can be set from 2.0 - 48 VDC depending upon the customer requirement. Features include:

- 100W with up to 4 outputs
- Ruggedized U-channel construction
- Universal AC Input
- RoHS compliant
- 24V and 48V DC Input models available
- International regulatory approvals
- Medical versions available

Input

Input - AC Models (US100)	90-264VAC, 47-63 Hz
Hold-Up Time	6msec minimum (Full Load)
Inrush Current	25 Amp Maximum (cold start)
Input - 48 Vin Models (DP100)	36-72 VDC Input Range
Input - 24Vin Models (DM100)	18-36 VDC Input Range

Output

Line Regulation	± 0.2% for Vin (min.) to Vin (max.)
Transient Response	< 5% and recovers in 0.5msec, 25~75% Step Io change
Over-Voltage Protection	130% Typical (Latched Shut-down)
Overload Protection	130% Total Power Limited
Load Regulation	V1 = ± 3% Max V2, V3 & V4 = ± 5% Max
Min. Load Requirement	20% Imax (V1,V2,V3,V4)
Turn-On Delay	2 Sec. Max.
Initial Setting Accuracy	± 1%
Ripple (pk-pk max)	± 1%

Electromagnetic Compatibility

Electrostatic Discharge	EN61000-4-2, ±4KV Contact / ±8KV Air Discharge
Radiated Susceptibility	EN61000-4-3, 26-1000MHz, 10V/M, 80% AM
EFT / Bursts	EN61000-4-4, ±2KV
Surges	EN61000-4-5, ±2KV Line-Earth, ±1KV Line-Line
Conducted Immunity	EN61000-4-6, 0.15-800MHz, 10V, 80% AM
Voltage Dips	EN61000-4-11, 95% Dip & 10ms, 30% Dip & 500ms

Electromagnetic compatibility specs apply to AC-DC Models only, please consult Digital Power for DC-DC specs.

Safety & Emissions

Safety Approvals	CSA/ul 22.2 No. 60950-1 VDE EN60950-1 CE Marking
Emissions	EN55022 Level A

Environmental

Operation Temperature	-0 ~ +50C. De-rate 2.5%/C up to +71C
Storage Temperature	-40C to +85C
Cooling	28 CFM for full load (70W Convection)
Humidity	Up to 95% RH Non-condensing
Shock & Vibration	0.75G Peak 5Hz - 500Hz
MTBF	>280,000 Hours per Belcore 332 issue 6

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Digital Power
Flexible Power Solutions

RoHS COMPLIANT

ISO 9001:2000 DVE CERTIFIED QUALITY MANAGEMENT SYSTEM

ITAR Compliant International Traffic in Arms Regulations

US-100 Series

100 Watt Flexible Input / Output Power Supply

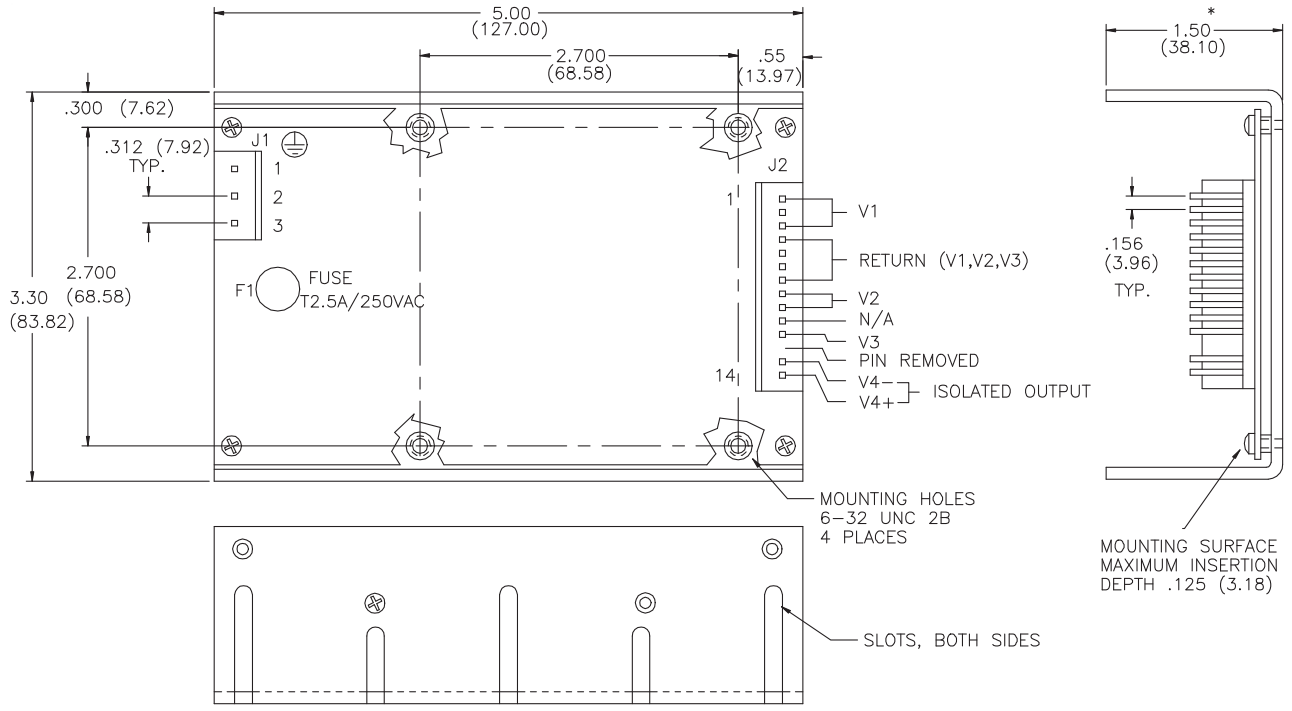
Single Output Model Selection Guide

AC Model	48VDC Model	24VDC Model	Output Power	Output Voltage	Output Current
US100-105	DP100-105	DM100-105	100 Watts	5V	14A
US100-112	DP100-112	DM100-112	100 Watts	12V	8.3A
US100-124	DP100-124	DM100-124	100 Watts	24V	4A

Multiple Output Model Selection Guide

Model	Output Power	V1 Output	V2 Output	V3 Output	V4 Output
US/DP/DM 100-201	100 Watts	+5V/14A	+12V/6A	-	-
US/DP/DM 100-301	100 Watts	+5V/10A	+12V/6A	-12V/2A	-
US/DP/DM 100-303	100 Watts	+5V/10A	+15V/6A	-15V/2A	-
US/DP/DM 100-401	100 Watts	+5V/10A	+12V/6A	-12V/2A	-5V/2A

Consult Digital power for DC input options, unique output voltages and other power levels.



J1 Connector Pinout

Connector	AC-DC	DC-DC
1	Ground	Ground
2	Neutral	-Input
3	Line	+Input

J1 CONNECTOR = MOLEX INC., 41671 SERIES, P/N: 26-48-1055.
(MATING CONNECTOR = MOLEX INC., 6442 SERIES (OR 41695 SERIES), P/N: 26-03-4050 (OR 09-50-8051))
J2 CONNECTOR = MOLEX INC., 41671 SERIES, P/N: 26-48-1145.
(MATING CONNECTOR = MOLEX INC., 6442 SERIES (OR 41695 SERIES), P/N: 26-03-4141 (OR 09-50-8081))
(MATING CRIMP TERMINALS = MOLEX INC., 6838 SERIES, P/N: 08-52-0113 OR 08-52-0112)
* OPTIONAL COVER ADDS 0.035 (.89) TO HEIGHT.

Revision A: 03/23/09 All specifications subject to change. Please consult Digitial Power for latest specifications.

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