

SERIES: EPS 6W | DESCRIPTION: AC-DC POWER SUPPLY

FEATURES • up to 6 W power • compact size • single output from 3~24 V • over voltage and short circuit • custom designs available	protections				
MODEL	output voltage	output current max	output power max	ripple and noise ¹ max	efficiency level
	voltage (Vdc)	current	power max (W)	and noise ¹ max (mVp-p)	level
EPS030100	voltage (Vdc) 3	current max	power max (W) 3	and noise ¹ max (mVp-p) 100	Ievel
EPS030100 EPS033100	voltage (Vdc) 3 3.3	current max	power max (W) 3 3.3	and noise ¹ max (mVp-p) 100 100	Ievel IV IV
EPS030100 EPS033100 EPS045100	voltage (Vdc) 3 3.3 4.5	current max	power max (W) 3 3.3 4.5	and noise ¹ max (mVp-p) 100 100 100	Ievel IV IV V
EPS030100 EPS033100 EPS045100 EPS050100	voltage (Vdc) 3 3.3 4.5 5	current max (A) 1 1 1 1 1 1	power max (W) 3 3.3 4.5 5	and noise ¹ max (mVp-p) 100 100 100 100	Ievel IV IV V V
EPS030100 EPS033100 EPS045100 EPS050100 EPS060100	voltage (Vdc) 3 3.3 4.5 5 6	current max (A) 1 1 1 1 1 1 1 1 1 1 1 1 1	power max (W) 3 3.3 4.5 5 6	and noise ¹ max (mVp-p) 100 100 100 100 100	Ievel IV IV V V V
EPS030100 EPS033100 EPS045100 EPS050100 EPS060100 EPS075080	voltage (Vdc) 3 3.3 4.5 5 6 7.5	current max (A) 1 1 1 1 1 1 1 1 1 1 1 0.8	power max (W) 3 3.3 4.5 5 6 6 6	and noise ¹ max (mVp-p) 100 100 100 100 100 100	Ievel IV IV V V V IV
EPS030100 EPS033100 EPS045100 EPS050100 EPS060100 EPS075080 EPS090066	voltage (Vdc) 3 3.3 4.5 5 6 7.5 9	current max (A) 1 1 1 1 1 0.8 0.66	power max (W) 3 3.3 4.5 5 6 6 6 6 6 6 6	and noise ¹ max (mVp-p) 100 100 100 100 100 100 100 100	Ievel IV V V V IV V V V V V V V V V V V
EPS030100 EPS033100 EPS045100 EPS050100 EPS060100 EPS075080 EPS090066 EPS120050	voltage (Vdc) 3 3.3 4.5 5 6 7.5 9 12	current max (A) 1 1 1 1 1 1 0.8 0.66 0.5	power max (W) 3 3.3 4.5 5 6 6 6 6 6 6 6 6 6 6	and noise ¹ max (mVp-p) 100 100 100 100 100 100 100 100 120	Ievel IV V V V V V V V V V V V V V V V V V V V V V V
EPS030100 EPS033100 EPS045100 EPS050100 EPS060100 EPS075080	voltage (Vdc) 3 3.3 4.5 5 6 7.5 9	current max (A) 1 1 1 1 1 0.8 0.66	power max (W) 3 3.3 4.5 5 6 6 6 6 6 6 6	and noise ¹ max (mVp-p) 100 100 100 100 100 100 100 100	Ievel IV V V V IV V V V V V V V V V V V

Notes: 1. At full load, 100 ~ 132 Vac input, 20 MHz bandwidth oscilloscope, each output terminated with 10 μF aluminum electrolytic and 0.1 μF ceramic capacitors.



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INPUT

parameter	conditions/description	1	min	typ	max	units
voltage			100		132	Vac
frequency			47		63	Hz
current					0.15	А
inrush current ¹	15V, 18V and 24V model	at 100 Vac at 132 Vac			15 30	A A
	all other models	at 132 Vac			40	A
no load power consumption	level IV models level V models				0.5 0.3	W W
Notes: 1. inrush lasts no longer than	n 0.5 ms before settling to steady state	e current				
OUTPUT						

OUTPUT

parameter	conditions/description	min	typ max	units
line regulation	all other models 7.5V model		±1 ±2	% %
load regulation			± 5	%
temperature coefficient	0 ~ 40°C, full load, after initial 1 hour warm-up		±0.02	%/°C
start-up	time needed to reach regulation		3	S
hold-up	at 115 Vac, full load	10		ms

PROTECTIONS

parameter	conditions/description	min	typ	max	units
over voltage protection	clamped by internal protection zener				
short circuit protection	continuous, auto-recovery upon removal of short				

SAFETY & COMPLIANCE

parameter	conditions/description	min	typ	max	units
isolation voltage	input to output at 10 mA for 1 minute			3,000 4,242	Vdc Vdc
isolation resistance	input to output at 500 Vdc	100			MΩ
safety approvals	UL 1310				
safety	class II				
EMI/EMC	FCC Part 15 Class B				
leakage current				0.25	mA
RoHS compliant	yes				

ENVIRONMENTAL

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parameter conditions/description	min	typ	max	units
operating temperature	0		40	°C
storage temperature	-10		70	°C
operating humidity	20		80	%
storage humidity	10		90	%

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parameter	conditions/descriptions/description	on	min	typ	max	units
dimensions		54 x 1.055 x 1.654 inch)				mm
input plug	fixed US					
MECHANICAL DRA	WING					
units: mm						
tolerance: X.X ± 0.5						
X.XX ±0.03						
17.06 ±1.18	→ 42 ±1.0	→ 26.8 ±1.0				
-1.10						
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OUTPUT PLUG OPTIONS



REVISION HISTORY

rev.	description	date
1.0	initial release	06/29/2006
1.01	applied new spec template	12/28/2010
1.02	removed multiple models, applied new spec template	05/26/2011
1.03	updated P7/P7R B dimension	04/13/2012
1.04	V-Infinity branding removed, safety and EMI/EMC data updated	08/16/2012
1.05	added 7.5V model	09/24/2012
1.06	updated P5 & P6 plug lengths	04/18/2013

The revision history provided is for informational purposes only and is believed to be accurate.



Headquarters 20050 SW 112th Ave. Tualatin, OR 97062 800.275.4899

Fax 503.612.2383 cui.com techsupport@cui.com

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

CUI offers a one (1) year limited warranty. Complete warranty information is listed on our website.

CUI reserves the right to make changes to the product at any time without notice. Information provided by CUI is believed to be accurate and reliable. However, no responsibility is assumed by CUI for its use, nor for any infringements of patents or other rights of third parties which may result from its use.

CUI products are not authorized or warranted for use as critical components in equipment that requires an extremely high level of reliability. A critical component is any component of a life support device or system whose failure to perform can be reasonably expected to cause the failure of the life support device or system, or to affect its safety or effectiveness.