

# SERIES: ETS 150W U | DESCRIPTION: AC-DC POWER SUPPLY

#### FEATURES

- up to 150 W power
- universal input (90~264 Vac)
- single regulated output from 12~24 V
- over load and short circuit protections
- UL/cUL and TUV safety approvals
- level V efficiency
- custom designs available

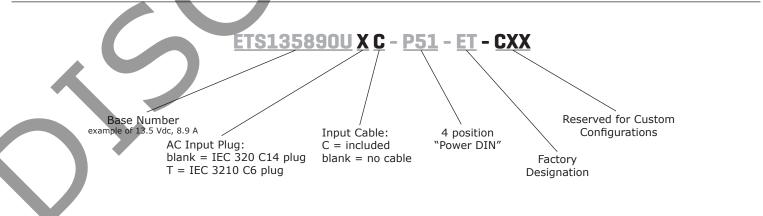




MODEL	output voltage	output current max	output power max	ripple <sup>1</sup> max	efficiency level
	(Vdc)	(A)	(W)	(mVp-p)	
ETS1201000U	12	10	120	200	V
ETS135890U	13.5	8.9	120.2	200	V
ETS150830U	15	8.3	124.5	200	V
ETS160810U	16	8.1	129.6	200	V
ETS180750U	18	7.5	135	250	V
ETS190750U	19	7.5	142.5	250	V
ETS200710U	20	7.1	142	250	V
ETS240625U	24	6.25	150	250	V

Notes: 1. At full load, 100 ~ 240 Vac input, 20 MHz bandwidth oscilloscope, each output terminated with 10 µF aluminum electrolytic and 0.1 µF ceramic capacitors.

# PART NUMBER KEY



auto restart

%

140

### INPUT

parameter	conditions/description	min	typ	max	units
voltage		90	·	264	Vac
frequency		47	·	63	Hz
current				2.5	А
inrush current	at 230 Vac, cool start			100	А
no load power consumption				0.5	W
power factor correction	complies with IEC 61000-3-2 class D, at 100 Vac harmonic standard, input power > 75W, at 240 Vac	0.95 0.9			
OUTPUT					
parameter	conditions/description	min	typ	max	units
load regulation			±5		%
PROTECTIONS					
parameter	conditions/description				
over voltage protection			140		%

## **SAFETY & COMPLIANCE**

over current protection short circuit protection

parameter	conditions/description		min	typ	max	units
isolation voltage	input to output at 10 mA for 1 sec	ond			1,800	Vac
safety approvals	UL/cUL (60950-1), EN 60950-1/IE	C 60950-1, CSA C22	60950-1-	·03		
EMI/EMC	FCC Part 15 Class B, CE, CNS 134 IEC 61000-4-(2, 3, 4, 5, 6, 8, 11)	38 class B, CISPR 22	class B, E	N 55022; EN	55024; EN 61	1000-(2, 3);
RoHS compliant	yes					
MTBF					40,000	hours

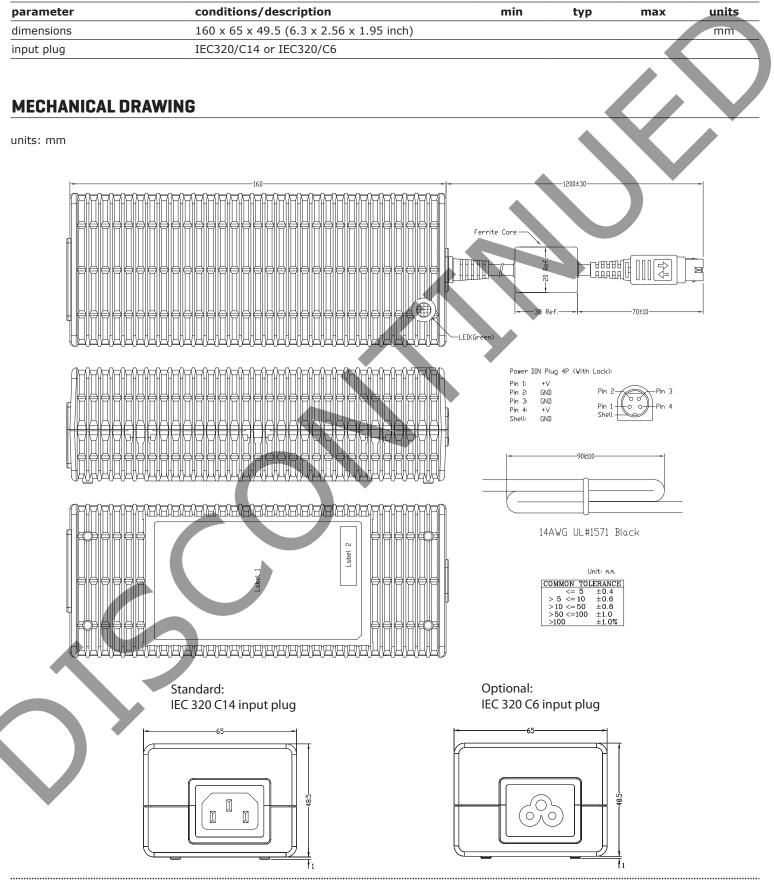
# ENVIRONMENTAL

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parameter	conditions/description	min	typ	max	units
operating temperature		0		40	°C
storage temperature		-20		85	°C
operating humidity		20		80	%
storage humidity		0		90	%

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## MECHANICAL



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# **AC CORD** 1830<u>+</u>50 10<u>±</u>5 3 YP-I2 δ YC-1 0 5 0 $( \bigcirc$ &r & 1830<u>+</u>50 $10\pm5$ E152635 $\binom{1}{4}$ <sub>Մ</sub>ր, Q Ц $( \bigcirc$ Ĉ E152635 U A N A 10A-125V δ $200 \pm 20$ 55mm 5mm 10A 125V 10A 125V

## **REVISION HISTORY**

rev.	description	date
1.0	initial release	10/22/2010
1.01	V-Infinity branding removed, safety and EMI/EMC data updated	08/13/2012
1.02	updated datasheet	11/26/2014

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



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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.