ZERTIFIKAT ◆ CERTIFICATE ◆ 認證證書 ◆ СЕРТИФИКАТ ◆ CERTIFICADO ◆ CERTIFICAT

Product Service

CERTIFICATE

No. B 057396 0592 Rev. 00

Holder of Certificate: **XP Power LLC.**
15641 Red Hill Avenue, Suite 100
Tustin CA 92780
USA

Certification Mark:

Product: **Power supply**

The product was tested on a voluntary basis and complies with the essential requirements. The certification mark shown above can be affixed on the product. It is not permitted to alter the certification mark in any way. In addition the certification holder must not transfer the certificate to third parties. See also notes overleaf.

Test report no.: 095-72119894-100

Valid until: 2023-01-06

Date, 2020-04-16 (Adrian Rabago Valenzuela)

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Model(s): ECS100US12-XB0302, ECS100US24-XB0303, ECS100US12-XB0533, ECS100USxx (where xx can be any number between 12 to 48 indicating output voltage; may also be provided with suffix "SF" to indicate single pole fusing)

Brand Name: XP

Parameters:

Rated Input: ECS100USxx: 100-240 VAC, 50/60 Hz, 1.9 A
ECS100US12-XB0302: 100-240 VAC, 1.9 A, 50/60 Hz or 100-350 VDC; 1.9 A
ECS100US24-XB0303: 100-240 VAC, 1.9 A, 50/60/400 Hz;
ECS100US12-XB0533: 40-90 VAC, 1.9 A, 50/60 Hz,

Protection Class: Class I or Class II at end use

Elevation for use: 0-3048 m above sea level

Approved models and output ratings:

Model Number	Output		Maximum Power (W)
	Voltage (V)	Max Current (A)	
ECS100US12	10.1-13.5	8.3	100
ECS100US15	13.6-17	6.7	
ECS100US18	17.1-21	5.5	
ECS100US24	21.1-26	4.2	
ECS100US28	26.1-31	3.6	
ECS100US33	31.1-33	3.0	
ECS100US36	33.1-42	2.8	
ECS100US48	42.1-54	2.1	
ECS100US12-XB0302	12	6.7	80
ECS100US24-XB0303	24	4.2	100
ECS100US24-XB0533	12	2.1	25

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Maximum ambient temperature (Tma):

50°C for 100% rated output at forced air cooling condition and 80% rated output at convection cooling condition;
70°C for 50% rated output at forced air cooling condition and 40% rated output at convection cooling condition;
ECS100US24-XB0533 evaluated at max ambient of 80°C at 100% rated output with a 50/60 Hz square waveform.

Conditions of Acceptability:

When installing the equipment, all requirements of the standards and the manufacturer's specifications must be met.

The model requires:

- A suitable fire enclosure must be provided in the end use equipment.
- The input terminal/connector CAN J1 must be connected to the end-product supply neutral.
- The power supply units provide double pole fusing, proper warning shall be provided at end product use.
- Heat sinks are floating and considered live. They should not be accessible in the end-product.
- Touch current test shall be conducted in the end-product evaluation.
- Ground bond test shall be conducted in the end-product evaluation for Class I installation.
- The maximum investigated branch circuit rating is: 20 A for AC models
- Base temperature of Model ECS100US12-XB0533 shall not exceed 85°C.
- The maximum continuous power supply output (Watts) relied on forced air cooling from: External fan at 10 cfm applied to power supply input side with inward air-flow direction from 2.75 inch distance between fan and the unit.
- The equipment is suitable for direct connection to: AC mains supply; DC mains supply for Model ECS100US12 -XB0302.

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For CLASS I Installation:

The power supply shall be mounted in manner that provides sufficient clearance and creepage distances between the hazardous circuit and protectively earthed accessible conductive parts when installed in a Class I end product.

The protective bonding terminal of the power supply shall be reliably bonded to the main protective earthing terminal of the end product when installed in a Class I end product.

For CLASS II Installation:

The power supply shall be mounted on insulating posts that provide sufficient clearance and creepage distance between the hazardous circuit and accessible conductive parts when installed in a Class II end product.

Tested according to: EN 62368-1:2014/A11:2017

Production Facility(ies): 059319, 071712, 059061, 089850

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