

## IEC SYSTEM FOR MUTUAL RECOGNITION OF TEST CERTIFICATES FOR ELECTRICAL EQUIPMENT (IECEE) CB SCHEME

## CB TEST CERTIFICATE

Product

Switching power supplies and accessory racks - component for build-in

Name and address of the applicant

TDK-Lambda Ltd.  
56 Haharoshet St., P.O.B. 500, Karmiel Industrial Zone,  
Karmiel 2161401, Israel

Name and address of the manufacturer

TDK-Lambda Ltd.  
56 Haharoshet St., P.O.B. 500, Karmiel Industrial Zone,  
Karmiel 2161401, Israel

Name and address of the factory

TDK-Lambda Ltd.  
56 Haharoshet St., P.O.B. 500, Karmiel Industrial Zone,  
Karmiel 2161401, Israel*Note: When more than one factory, please report on page 2* Additional Information on page 2

Ratings and principal characteristics

See pages 2-3 for details

Trademark (if any)

**TDK-Lambda**

Customer's Testing Facility (CTF) Stage used

CTF3

Model / Type Ref.

Single Power Supply Modules:

- 1). FPS1000-48xz, -32xz, -24xz, -12xz
- 2). RFE1000-48xz, -32xz, -24xz

Empty Racks:

- 3). FPS-S1Uxy
- 4). FPS-T1Uxy

Triple Power Supply Modules

(based on FPS-S1U empty rack):

- 5). FPS3000-48x, -32x, -24x or -12x

See page 2 for details

Additional information

(if necessary may also be reported on page 2)

 Additional Information on page 2

A sample of the product was tested and found to be in conformity with

IEC62368-1:2014,

including National Differences:

EU Group Differences, EU Special National Conditions,  
EU A-Deviations, AT, AU, BE, BY, CA, CH, CN, DE, DK, FI,  
FR, GB, HU, IL, IT, JP, KR, MY, NL, NO, NZ, SE, SG, SI, US

As shown in the Test Report Ref. No. which forms part of this Certificate

9912328257

This CB Test Certificate is issued by the National Certification Body

The Standards Institution of Israel  
42 Chaim Levanon St.,  
Tel Aviv 6997701, Israel

Date: November 18, 2020

Signature:

Ilan Belker

Quality, Safety & Environmental Manager  
Industry Division

Name and address of the factory:

2. TDK-Lambda (China) Electronics Co., Ltd.  
No.95, Zhujiang Road, Xinwu District, Wuxi,  
Jiangsu 214028, P.R. China

Model / Type Ref.:

Single Power Supply Modules:

- 1). FPS1000-48xz, -32xz, -24xz, -12xz (x = "/P", "/S", "/PS", "/POE", blank; z=/CO, blank)
- 2). RFE1000-48xz, -32xz, -24xz (x = "-Y", blank; z=/CO, blank)

Empty Racks:

- 3). FPS-S1Uxy (x = "/P", "/S", "/PS", "/TB", blank; y-/CO, blank)
  - 4). FPS-T1Uxy (x = "/P", "/S", "/PS", blank; y-/CO, blank)
- Triple Power Supply Modules (based on FPS-S1U empty rack):
- 5). FPS3000-48x, -32x, -24x or -12x (x = "/P", "/S", "/PS", "/TB", blank)

Ratings and principal characteristics:

**1). FPS1000-48xz, -32xz, -24xz, -12xz:**

1.a) x= "/S", "/POE", blank;

Input: 100-240 Vac, 13-6.3 A, 50/60 Hz;

Output:

- [-48 @ T=50°C]: V1 = 48 Vdc, 21 A; V2 = 12 Vdc, 0.25 A;
- [-48 @ T=70°C]: V1 = 48 Vdc, 11.55 A; V2 = 12 Vdc, 0.25 A;
- [-32 @ T=50°C]: V1 = 32 Vdc, 31 A; V2 = 12 Vdc, 0.25 A;
- [-32 @ T=70°C]: V1 = 32 Vdc, 17.05 A; V2 = 12 Vdc, 0.25 A;
- [-24 @ T=50°C]: V1 = 24 Vdc, 40 A; V2 = 12 Vdc, 0.25 A;
- [-24 @ T=70°C]: V1 = 24 Vdc, 22 A; V2 = 12 Vdc, 0.25 A;
- [-12 @ T=50°C]: V1 = 12 Vdc, 72 A; V2 = 12 Vdc, 0.25 A;
- [-12 @ T=70°C]: V1 = 12 Vdc, 39.6 A; V2 = 12 Vdc, 0.25 A;

1.b) x= "/P", "/PS";

Input: 100-240 Vac, 13-6.3 A, 50/60 Hz;

Output:

- [-48 @ T=50°C]: V1 = 48 Vdc, 21 A; V2 = 12 Vdc, 0.25 A;
- [-48 @ T=60°C]: V1 = 48 Vdc, 16.8 A; V2 = 12 Vdc, 0.25 A;
- [-32 @ T=50°C]: V1 = 32 Vdc, 31 A; V2 = 12 Vdc, 0.25 A;
- [-32 @ T=60°C]: V1 = 32 Vdc, 24.8 A; V2 = 12 Vdc, 0.25 A;
- [-24 @ T=50°C]: V1 = 24 Vdc, 40 A; V2 = 12 Vdc, 0.25 A;
- [-24 @ T=60°C]: V1 = 24 Vdc, 32 A; V2 = 12 Vdc, 0.25 A;
- [-12 @ T=50°C]: V1 = 12 Vdc, 72 A; V2 = 12 Vdc, 0.25 A;
- [-12 @ T=60°C]: V1 = 12 Vdc, 57.6 A; V2 = 12 Vdc, 0.25 A

**Additional information (if necessary)**



The Standards Institution of Israel  
42 Chaim Levanon St.,  
Tel Aviv 6997701,  
Israel

Date: November 18, 2020

Signature:

  
Ilan Belker  
Quality, Safety & Environmental Manager  
Industry Division

Ratings and principal characteristics:

**2). RFE1000-48xz, -32xz, -24xz:**

Input= 100-240 Vac, 13-6.3 A, 50/60 Hz;

Output:

[-48 @ T=50°C]: V1 = 48 Vdc, 21 A; V2 = 12 Vdc, 0.25 A;  
 [-48 @ T=70°C]: V1 = 48 Vdc, 11.55 A; V2 = 12 Vdc, 0.25 A;  
 [-32 @ T=50°C]: V1 = 32 Vdc, 31 A; V2 = 12 Vdc, 0.25 A;  
 [-32 @ T=70°C]: V1 = 32 Vdc, 17.05 A; V2 = 12 Vdc, 0.25 A;  
 [-24 @ T=50°C]: V1 = 24 Vdc, 40 A; V2 = 12 Vdc, 0.25 A;  
 [-24 @ T=70°C]: V1 = 24 Vdc, 22 A; V2 = 12 Vdc, 0.25 A;

**3). FPS-S1Uxy:**

Input: 100-240Vac, 39-18.9 A, 50/60 Hz per unit, for full rack.

Output:

[-48 @ T=50°C]: V1 = 48 Vdc, 63 A; V2 = 12 Vdc, 0.75 A;  
 [-48 @ T=70°C]: V1 = 48 Vdc, 34.66 A; V2 = 12Vdc, 0.75 A;  
 [-32 @ T=50°C]: V1 = 32 Vdc, 93 A; V2 = 12Vdc, 0.75 A;  
 [-32 @ T=70°C]: V1 = 32 Vdc, 51.15 A; V2 = 12Vdc, 0.75 A;  
 [-24 @ T=50°C]: V1 = 24 Vdc, 120 A; V2 = 12Vdc, 0.75 A;  
 [-24 @ T=70°C]: V1 = 24 Vdc, 66 A; V2 = 12Vdc, 0.75 A;  
 [-12 @ T=50°C]: V1 = 12 Vdc, 216 A; V2 = 12Vdc, 0.75 A;  
 [-12 @ T=70°C]: V1 = 12 Vdc, 118.8 A; V2 = 12Vdc, 0.75 A.

**4). FPS-T1Uxy:**

Input: 100-240 Vac, 13-6.3 A, 50/60 Hz per unit, up to 3 units;

Outputs (per each installed unit):

[-48 @ T=50°C]: V1 = 48 Vdc, 21 A; V2 = 12 Vdc, 0.25 A;  
 [-48 @ T=70°C]: V1 = 48 Vdc, 11.55 A; V2 = 12 Vdc, 0.25 A;  
 [-32 @ T=50°C]: V1 = 32 Vdc, 31 A; V2 = 12 Vdc, 0.25 A;  
 [-32 @ T=70°C]: V1 = 32 Vdc, 17.05 A; V2 = 12 Vdc, 0.25 A;  
 [-24 @ T=50°C]: V1 = 24 Vdc, 40 A; V2 = 12 Vdc, 0.25 A;  
 [-24 @ T=70°C]: V1 = 24 Vdc, 22 A; V2 = 12 Vdc, 0.25 A;  
 [-12 @ T=50°C]: V1 = 12 Vdc, 72 A; V2 = 12 Vdc, 0.25 A;  
 [-12 @ T=70°C]: V1 = 12 Vdc, 39.6 A; V2 = 12 Vdc, 0.25 A;

**5). FPS3000-48x, -32x, -24x or -12x:**

Input: 100-240Vac, 39-18.9 A for /TB only and 13-6.3 each input, 50/60 Hz for full rack;

Outputs:

[-48 @ T=50°C]: V1 = 48 Vdc, 63 A; V2 = 12V dc, 0.75A;  
 [-48 @ T=60°C]: V1 = 48 Vdc, 50.4 A; V2 = 12V dc, 0.75A;  
 [-32 @ T=50°C]: V1 = 32 Vdc, 93 A; V2 = 12V dc, 0.75A;  
 [-32 @ T=60°C]: V1 = 32 Vdc, 74.4 A; V2 = 12V dc, 0.75A;  
 [-24 @ T=50°C]: V1 = 24 Vdc, 120 A; V2 = 12V dc, 0.75A;  
 [-24 @ T=60°C]: V1 = 24 Vdc, 96 A; V2 = 12V dc, 0.75A.  
 [-12 @ T=50°C]: V1 = 12 Vdc, 216 A; V2 = 12V dc, 0.75A;  
 [-12 @ T=60°C]: V1 = 12 Vdc, 172.8 A; V2 = 12V dc, 0.75A

**Additional information (if necessary)**


The Standards Institution of Israel  
 42 Chaim Levanon St.,  
 Tel Aviv 6997701,  
 Israel

Date: November 18, 2020

Signature:

Ilan Belker  
 Quality, Safety & Environmental Manager  
 Industry Division