

Delivering leading edge, innovative power solutions for more than 30 years....

Model:GT-83083-05VV-USB (F-Blade)

May 9, 2024

## GT-83083-05VV-USB (F-Blade)

### Information

Model Number	GT-83083-05VV-USB (F-Blade)
Description	GT-83083-05VV-USB (F-Blade), ICT/ITE Power Supply, Wall Plug-in, Regulated Switchmode AC-DC Power Supply AC Adaptor, , Input Rating: 100-240V~, 50-60Hz, Blade Options for F- Series Wall Plug-in Power Supplies, Output Rating: 5 Watts, Power rating with convection cooling (W) , 5VV in 0.1V increments, Approvals: SIQ; CB 60950; UKCA; Morocco; CB 62368; LPS 62368; CE; China RoHS; cULus; Double Insulation; Level VI; LPS 60950; PSE; VCCI; WEEE;

### Model Picture



Agency Documents	<a href="http://www.globtek.info/certs/GT-83083-USB-W2Z/">http://www.globtek.info/certs/GT-83083-USB-W2Z/</a>
CE EC-Declaration	<a href="https://www.globtek.com/pdf/ec_declaration/a0Oa000000FiWHOEA3">https://www.globtek.com/pdf/ec_declaration/a0Oa000000FiWHOEA3</a>
RoHS/RoHS2 Declaration	<a href="https://www.globtek.com/pdf/rohs_cert/a0Oa000000FiWHOEA3">https://www.globtek.com/pdf/rohs_cert/a0Oa000000FiWHOEA3</a>
REACH Declaration	<a href="https://www.globtek.com/pdf/iso_certificates/REACH.pdf">https://www.globtek.com/pdf/iso_certificates/REACH.pdf</a>
Conflict Minerals Declaration	<a href="https://www.globtek.com/pdf/conflict-minerals.pdf">https://www.globtek.com/pdf/conflict-minerals.pdf</a>

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**MODEL PARAMETERS**

Type	Wall Plug-in
Technology	Regulated Switchmode AC-DC Power Supply AC Adaptor
Category	ICT/ITE Power Supply
Input Voltage	100-240V~, 50-60Hz
I/P Amps (A)	0.2A
Wattage (W)	5.0
Vout Range (V)	5V
Efficiency Level	USA DOE Level VI / Eco-design Directive 2009/125/EC, (EU) 2019/1782
Ingress Protection	IPX0
Size (mm)	47.3(L) *34.8(W) *26.7(H)

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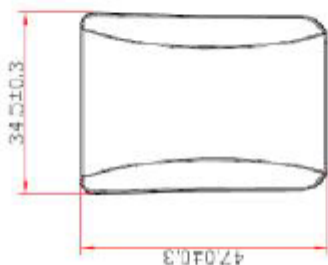
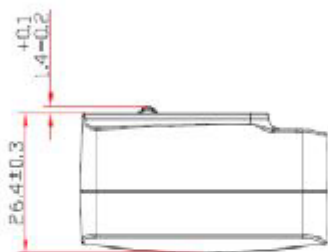
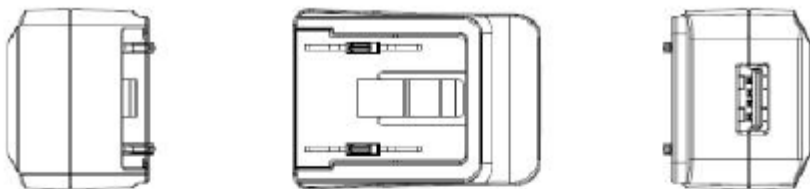
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## ENCLOSURE



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## RATING TABLE

Model Number	Voltage	Amps(A)	Watts(W)	RFQ
GT-83083-0505-USB	5 V	1	5.00	<a href="#">RFQ</a>

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## SPECIFICATIONS

### A) ELECTRICAL SPECIFICATIONS:

01. Input Voltage: Specified 90-264 Vac, Nameplate rated: 100-240Vac
02. Input Frequency: Specified 47-63 Hz, Nameplate rated 50-60Hz
03. Line Regulation:  $\pm 5\%$
04. Load regulation:  $\pm 5\%$
05. Ripple and Noise (Vp-p): 300 mVp-p maximum, At 20 MHz, and output parallel with 0.1uF & 10uF capacitors to ground, Temperature at 25 °C, and nominal AC input voltage
06. Average Efficiency: 73.77% minimum , At nominal input voltage average Efficiency meet CEC VI
07. Turn-ON Delay: 3 Seconds maximum

### B) PROTECTION

01. Over-Voltage: 10V maximum
02. Over current protection: 1.5A maximum with auto-recovery function
03. Short Circuit: The adapter shall not be damaged by short the DC output to Ground.

### C) SAFETY

01. Dielectric Withstand Voltage: Primary To Secondary: 3000VAC 10mA 1minute or 4242VDC 10mA 1minute
02. Leakage Current: 20uA maximum, at nominal AC input voltage and frequency

### D) EMC

01. Emissions, per EN 55032, EN 61000-6-3, EN 61000-6-4
  - Conducted Emissions: Class B, FCC Part 15, Class B
  - Radiated Emissions: Class B, FCC Part 15, Class B
02. Line Frequency Harmonics EN61000-3-2, Class A
03. Voltage Fluctuations/Flicker EN61000-3-3
04. Immunity, per EN 55024, EN 61000-6-1, EN 61000-6-2
  - Static Discharge Immunity EN61000-4-2, 4kV Contact Discharge, 8kV air discharge
  - Radiated RF Immunity EN61000-4-3, 3V/m 80-1000MHz, 80% 1KHz AM.
  - EFT/Burst Immunity EN61000-4-4, 1kV/100kHz.
  - Line Surge Immunity EN61000-4-5, 1kV differential, 2kV common-mode
  - Conducted RF Immunity EN61000-4-6, 3Vrms, 80% 1KHz AM
  - Power Frequency Magnetic Field Immunity EN61000-4-8, 1A/m
  - Voltage Dip Immunity EN61000-4-11, Criteria

### E) OTHER:

01. MTBF: 200,000 Hours @ 25°C ambient temperature
02. Operating Temperature: 0°C to 40°C ambient temperature
03. Humidity: 0% to 90% relative humidity
04. Storage Temperature: -20°C to 60°C
05. Cooling: natural convection cooling
06. ROHS 2: Complies with EU 2011/65/EU and China SJ/T 11363-2006

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F) ENCLOSURE

01. Housing: High impact plastic, 94V0 polycarbonate, non-vented

02. Markings: Label and/or Pad Printed and/or Molded in the case

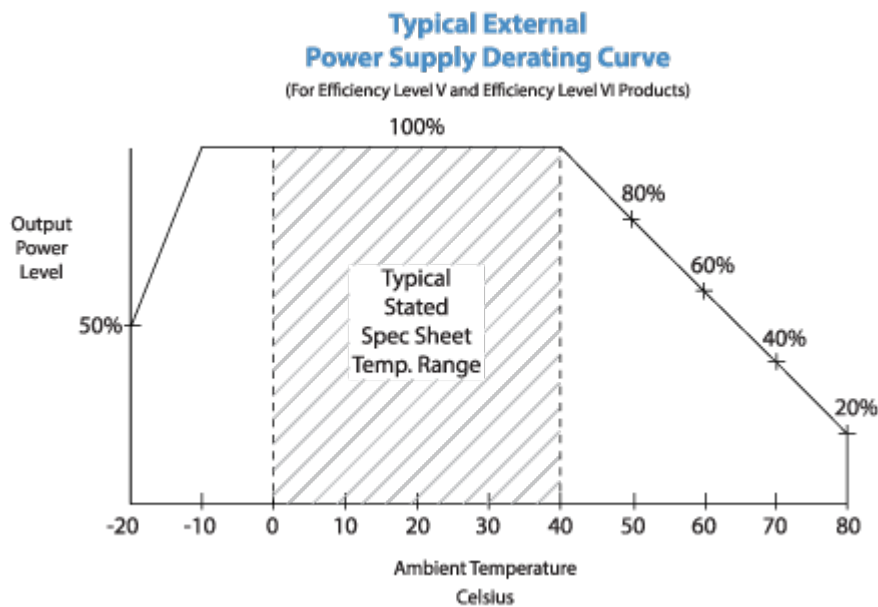
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## DERATING CURVE



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## INPUT CONFIGURATION

Description

Blade Options for F- Series Wall Plug-in Power Supplies



INPUT CONNECTOR: F-Socket (below are available blades configurations which are "not included" (unless stated above); can be purchased separately, package with power supply or as a separate "F-KIT" if specified

01. United States / Canada / Japan NEMA 1-15P configuration: NA 2 blades, Class II; US/CA/JP P/N: F-NA(R)
02. European CEE 7/16 configuration: Europlug 2 pins, Class II; EU P/N: F-EU(R)
03. UK BS 1363 configuration: UK 3 blade with dummy Ground, Class II; GB P/N: F-UK(R)
04. Australian AS 3112 configuration: SAA 2 blade, Class II; AU P/N: F-SAA(R)
05. Brazilian NBR6147 configuration: 2 pins, Class II;SIMILAR TO IEC TYPE C BR P/N: F-BR(R)

F-KIT: 1,2,3,4,5 above



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## OUTPUT CONFIGURATION

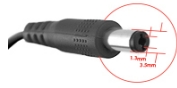
Common output connector options:



L Type (Coaxial  
5.5x2.5mm plug)



C Type (Coaxial  
5.5x2.1mm plug)



K Type (Coaxial  
3.5x1.3mm plug)



LL Type (5.5x2.5mm  
Locking 760k type)



CL Type (5.5x2.1mm  
Locking S761k type)



ML2 Type (Molex  
housing 43025-0200)



YL3 Type  
(KPPX-3P)



YL4 Type (KPPX-4P)



EJ1/2/3/4/5 (EIAJ  
RC-5320A type  
connectors)



MSB Type (Micro  
USB)



USBC Type (USB  
Type C)



Inquire for custom  
design

For a comprehensive list of options, [click here](#)








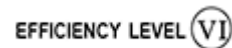
Contact GlobTek for your specific requirements or custom solutions.

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## Approvals

Logo	Description
	Attention Mark / Refer to operating manual for operating and service instructions
No Logo Applicable	CB report 60950-1 2nd Ed
No Logo Applicable	CB for IEC 62368-1:2014 (Second Edition) + A11:2017
	CE Mark: tested to comply with EN55022:2006/A1:2007 Class B, EN610003-2, EN610003-3 including EN61000-4-2, EN61000-4-3, EN61000-4-4, EN61000-4-5, EN61000-4-6N EN61000-4-11; EMI: Complies with EN55011 CLASS B and FCC Part 15B - On label or Molded in case
	CHINA SJ/T 11364-2014, China RoHS Chart: <a href="http://www.globtek.com/pdf/F-GT-DJD-8.4.1-006%20China%20RoHS%20Declaration%205-20-22.pdf">http://www.globtek.com/pdf/F-GT-DJD-8.4.1-006%20China%20RoHS%20Declaration%205-20-22.pdf</a>
	UL60950-1, cULus to UL 60950-1, 2nd Edition, 2007-03-27 and CSA C22.2 No. 60950-1-07, 2nd Edition, 2007-03
	
	Indoor Use Only - Mark is on the label or Molded in the case
 GlobTek, Inc.	JAPAN TUV R-PSE, Cert. No. JD 50471624, to J62368-1(H30) , J55032(H29),J3000(H25,[15V or less]). Please reference the following website for guidelines on PSE regulations: <a href="https://www.globtek.com/r2/Szj4Vb">https://www.globtek.com/r2/Szj4Vb</a>
	Efficiency: complies to section 301 of Energy Independence and Security Act (EISA) complies with Energy Star tier 2 (North America), ECP tier 2 (China), MEPS tier 2 (Australia), Code of Conduct (Europe)
LPS	Limited Power Source 60950
LPS	Limited Power Source 62368

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	Morocco SDoC declaration <a href="http://www.globtek.info/certs/Morocco%20SDoC%20Declaration/">http://www.globtek.info/certs/Morocco%20SDoC%20Declaration/</a>
 IEC/EN60950-1	SIQ Mark License EN60950-1
	UKCA Certification
	Japan: Voluntary Control Council for Interference (VCCI)
	WEEE: Complies with EU 2012/19/EU ( <a href="http://ec.europa.eu/environment/waste/weee/index_en.htm">http://ec.europa.eu/environment/waste/weee/index_en.htm</a> ) Mark is on the label or Molded in the case