

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

Model:GT-81083-05xx-W2

May 18, 2024

GT-81083-05xx-W2

Information

Model Number	GT-81083-05xx-W2
Description	GT-81083-05xx-W2, ICT/ITE Power Supply, Wall Plug-in, Regulated Switchmode AC-DC Power Supply AC Adaptor, , Input Rating: 100-240V~, 50/60Hz, NEMA 1-15P, North America Blades, Class II 2 Conductors, Output Rating: 5 Watts, Power rating with convection cooling (W) , 3-13V in 0.1V increments, Approvals: PSE; VCCI; RoHS; China RoHS; WEEE; Level IV 115V; Double Insulation; CB 60950; cUL 60950; IP41; LPS 60950;
Model Picture	
Agency Documents	http://www.globtek.info/certs/GT-81083/
CE EC-Declaration	https://www.globtek.com/pdf/ec_declaration/a0O30000007P7ZaEAK
RoHS/RoHS2 Declaration	https://www.globtek.com/pdf/rohs_cert/a0O30000007P7ZaEAK
REACH Declaration	https://www.globtek.com/pdf/iso_certificates/REACH.pdf
Conflict Minerals Declaration	https://www.globtek.com/pdf/conflict-minerals.pdf

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MODEL PARAMETERS

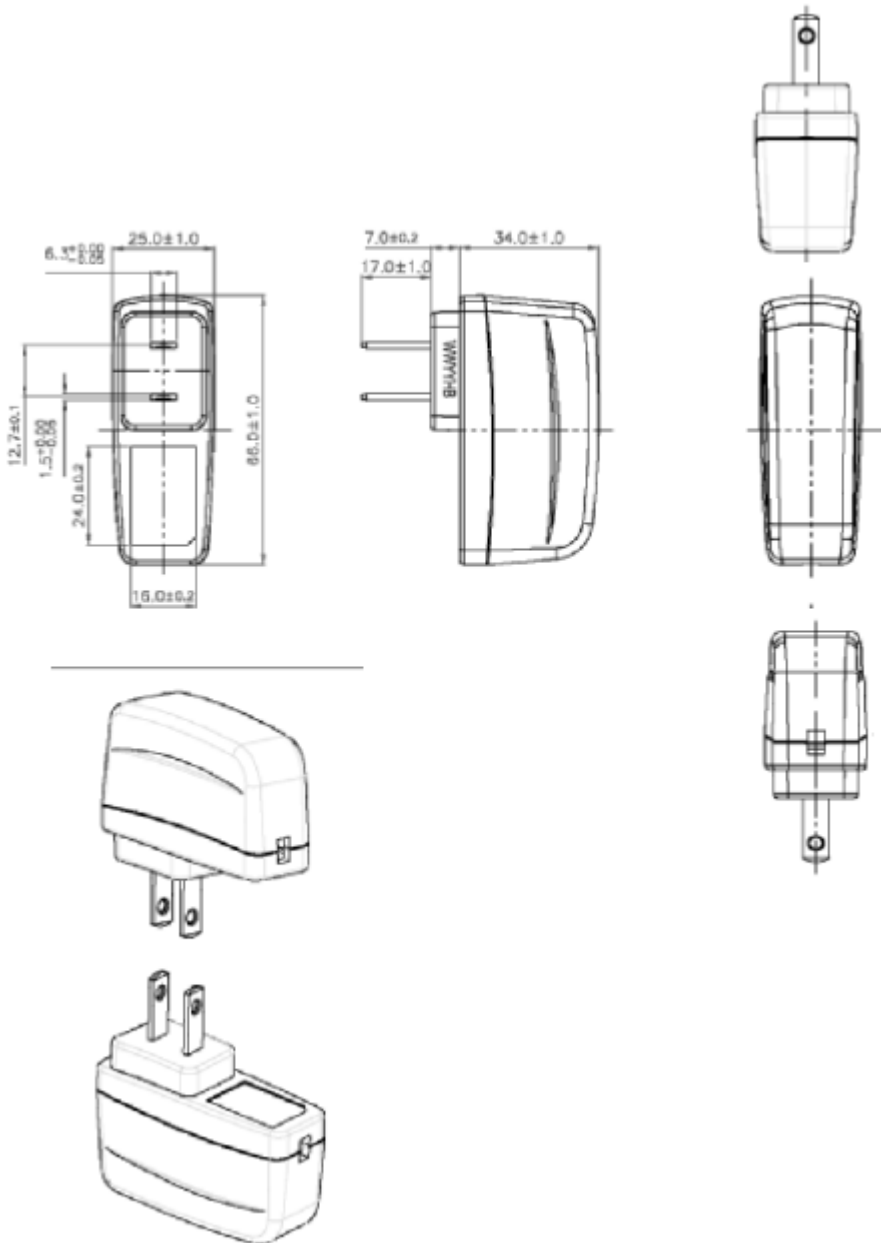
Type	Wall Plug-in
Technology	Regulated Switchmode AC-DC Power Supply AC Adaptor
Category	ICT/ITE Power Supply
Input Voltage	100-240V~, 50/60Hz
I/P Amps (A)	0.2A
Wattage (W)	5.0
Vout Range (V)	3-13
Efficiency Level	IV
Ingress Protection	IP41
Size (mm)	66*41*49

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ENCLOSURE



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RATING TABLE

Model Number	Voltage	Amps(A)	Watts(W)	RFQ
GT-81083-0404-1.0-W2	3 V	1	3.00	RFQ
GT-81083-0506-1.0-W2	5 V	1	5.00	RFQ
GT-81083-0506-W2	6 V	1	6.00	RFQ
GT-81083-0509-2.0-W2	7 V	0.71	4.97	RFQ
GT-81083-0509-W2	9 V	0.55	4.95	RFQ
GT-81083-0513-1.0-W2	12 V	0.417	5.00	RFQ
GT-81083-0513-W2	13 V	0.38	4.94	RFQ

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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. Output Regulation: +/- 5% measured at the output connector
04. Line Voltage Regulation: +/- 2% typical measures at full load
05. Output Ripple (Vp-p): 100 mV measured at 20 MHz bandwidth with 0.1 uf ceramic capacitor in parallel with 10 uf electrolytic capacitor connected at the end of output connector at nominal line
06. Turn-On/Turn-Off Overshoot: 5% maximum, 1mS typical recovery time for 25% step load
07. Turn-On Delay: <2 second typical
08. Hold-Up Time: 5mS typical @ nominal input voltage & full load
09. Inrush Current: 30A typical @ 115Vac input ; 60A typical @ 230Vac input
10. Switching Frequency: 65 KHz typical

B) PROTECTION

1. Over-Voltage: Electronically Protected, unit will recover upon removal of fault
2. Short Circuit: Electronically Protected, unit will recover upon removal of fault
3. Input Protection: Input line fusing

C) SAFETY

1. Dielectric Withstand Voltage: 4242Vdc from primary to secondary
2. Touch Current: <0.25mA @ 240Vac input voltage

D) OTHER:

1. MTBF: 200,000 hours @ 25°C ambient temperature
2. Operating Temperature: 0°C to 40°C ambient temperature
3. Humidity: 0% to 90% relative humidity
4. Storage Temperature: -10°C to 80°C

E) ENCLOSURE

1. Upper Housing: High impact plastic, 94V0 polycarbonate, non-vented
2. Lower Housing: High impact plastic, 94V0 polycarbonate, non-vented
3. Size: 66*41*25 mm +/-1.0

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DERATING CURVE

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INPUT CONFIGURATION

Description	NEMA 1-15P, North America Blades, Class II 2 Conductors
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All NEMA 1 devices are two-wire non-grounding devices (hot-neutral) rated for 125 V maximum. NEMA 1-15P plugs have two parallel flat blades, 0.25 inches (6.35 mm) wide, 0.06 inches (1.524 mm) thick, 0.625-0.718 inches (15.875–18.256 mm) long, and spaced 0.5 inches (12.7 mm) apart.

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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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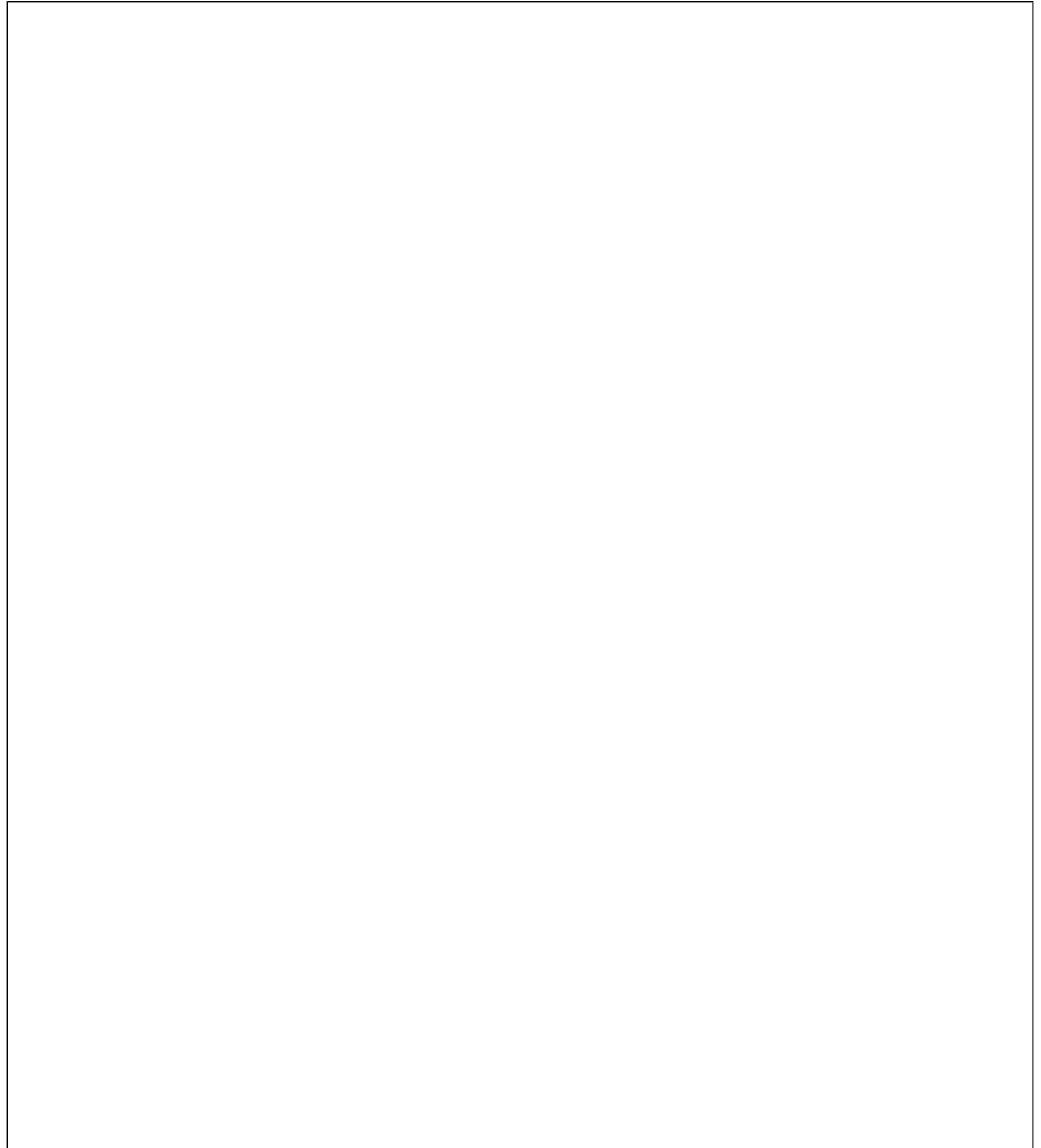
Approvals

Logo	Description
No Logo	CB Certificate IEC 60950-1:2005 (2nd Edition), Am 1: 2009, CB report IEC 60950-1:2005 (2nd Edition), Am 1: 2009 and EN 60950-1:2006 + Am 1:2010 + Am 11:2009 + Am 12:2011
	CHINA SJ/T 11364-2014, China RoHS Chart: http://www.globtek.com/pdf/F-GT-DJD-8.4.1-006%20China%20RoHS%20Declaration%205-20-22.pdf
	UL60950-1, cULus to UL 60950-1, 1st Edition, 2007-10-31 and CSA C22.2 No. 60950-1-03, 1st Edition, 2006-07
	
	Indoor Use Only - Mark is on the label or Molded in the case
IP41	Ingress Protection: ?IP41 to IEC60529:2001 Protection against granular foreign bodies - Protected against vertically falling drops of water
EFFICIENCY LEVEL  115V	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
 GlobTek, Inc.	JAPAN TUV Rheinland-PSE GlobTek Inc to J60950-1(H26) , J55022(H22),J3000(H25).Please follow the procedure listed in the following link for proper import to Japan: https://www.globtek.com/r2/Szj4Vb
RoHS	Specifications of directive 2011/65/EU Annex VI (ROHS-2) with amendment 2015/863-EU (ROHS-3) http://www.ce-mark.com/Rohs%20final.pdf
	Japan: Voluntary Control Council for Interference (VCCI)
	WEEE: Complies with EU 2012/19/EU (http://ec.europa.eu/environment/waste/weee/index_en.htm) Mark is on the label or Molded in the case

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<https://www.globtek.com/ds/fk6GWuXLy77/URjLhaFD9xf.html>