

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

Model:GTM43007-AWWVV-F

June 24, 2019

2" x 3" (2x3") Ultra Compact AC-DC Switching Power Supplies available in 60601-1 Medical, 60950-1 ITE, and 60335-1 Household with Class I and up to 60W output power

Information

Model Number GTM43007-AWWVV-F

Description

GTM43007-AWWVV-F, ITE / Medical Power Supply, 60601-1-4th Ed. , Open Frame/Internal, Regulated Switchmode AC-DC Power Supply AC Adaptor, , Input Rating: 100-240V~, 50-60 Hz, Molex 26-60-4030 3 Position Header Pin 1: Line, Pin 2: Removed, PIN 3: Neutral, Output Rating: 60 Watts, Power rating with convection cooling (W) , 5-48V in 0.1V increments, Approvals: CB 62368; ETL 62368; EAC; Book 60601; China RoHS; Class I; RoHS; Ukraine; WEEE; CE; CB 60601-1 2MOPP; CE; FCC; CB 60950; CB EN/IEC 60335-1; cETLus; cETLus ES60601; cETLus 60601-1 3rd; NEMKO EN/IEC 60335-1; S-Mark IEC/EN 60601-1 60950; Level V; WDaE; Fuse60335; Fuse 60335;

Model Picture



Agency Documents <http://www.globtek.info/certs/GTM43007/>

CE EC-Declaration https://www.globtek.com/pdf/ec_declaration/a0Oa000000K8gLUEAZ

RoHS/RoHS2 Declaration https://www.globtek.com/pdf/rohs_cert/a0Oa000000K8gLUEAZ

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	Open Frame/Internal
Technology	Regulated Switchmode AC-DC Power Supply AC Adaptor
Category	ITE / Medical Power Supply
Input Voltage	100-240V~, 50-60 Hz
I/P Amps (A)	1.5A
Wattage (W)	60.0
Vout Range (V)	5-48
Efficiency Level	N/A
Ingress Protection	N/A
Size (mm)	76.2x50.8x23.6 for 5V-14V models, 76.2x50.8x22.5 for 15V-48V models

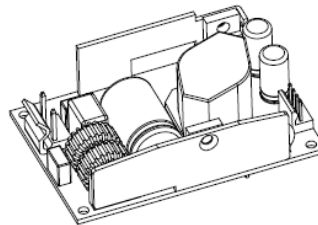
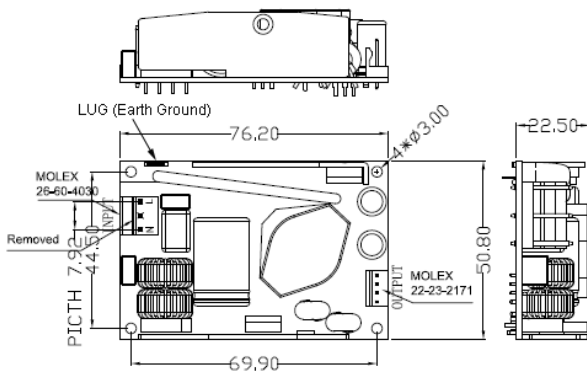
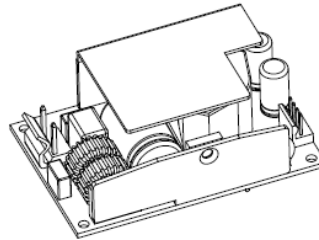
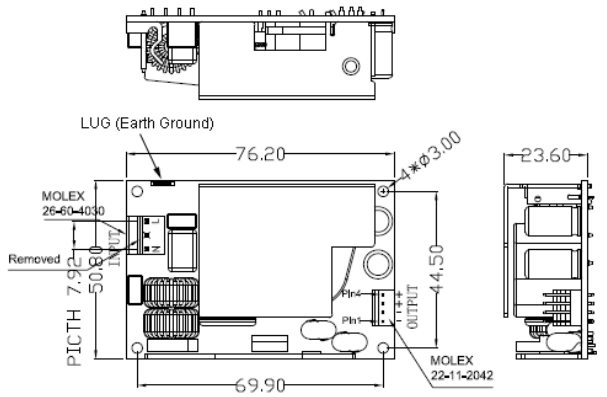
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ENCLOSURE

Top Diagram is for 5V-14V models, Bottom Diagram is for 15V-48V models



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RATING TABLE

Model Number	Voltage	Amps(A)	Watts(W)	RFQ
GTM43007-A3005-F	5 V	6	30.00	RFQ
GTM43007-A3007-1.0-F6	5 V	5	30.00	RFQ
GTM43007-A3007-F	7 V	4.28	29.96	RFQ
GTM43007-A3809-1.5-F7.5	5 V	5	37.50	RFQ
GTM43007-A4509-F	9 V	5	45.00	RFQ
GTM43007-A4512-2.0-F10	4.5 V	4.5	45.00	RFQ
GTM43007-A6012-F	12 V	5	60.00	RFQ
GTM43007-A4512-F	12 V	3.75	45.00	RFQ
GTM43007-A6015-F	15 V	4	60.00	RFQ
GTM43007-A6024-7.0-F17	3.53 V	3.53	60.01	RFQ
GTM43007-A1018-F	18 V	0.555	9.99	RFQ
GTM43007-A6018-F	18 V	3.33	59.94	RFQ
GTM43007-A6024-4.0-F20	3 V	3	60.00	RFQ
GTM43007-A6024-F	24 V	2.5	60.00	RFQ
GTM43007-A6036-6.0-F30	2 V	2	60.00	RFQ
GTM43007-A6036-F	36 V	1.66	59.76	RFQ
GTM43007-A6048-8.0-F40	1.5 V	1.5	60.00	RFQ
GTM43007-A6048-F	48 V	1.25	60.00	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: +/- 3% measured at the output connector
04. Line Voltage Regulation: +/- 0.5% maximum measured at full load
05. Output Ripple (Vp-p): 1% or 150 mV whichever is greater, measured at 20 MHz bandwidth with 0.1 uf ceramic capacitor in parallel with a low impedance 47 uf electrolytic capacitor connected 3" from the output connector, measured with a 50 ohm scope termination
06. Turn-ON/OFF: 5% maximum, 1 mS typical recovery time for 25% step load
07. Turn-ON Delay: 3 Sec max
08. Hold-Up Time: 8 mS typical @ nominal input voltage and full load
09. Inrush Current: 30A maximum @ 115 Vac input, 60A maximum @ 230 Vac input
10. Switching Frequency: 65 KHz typical
11. Efficiency: 87% @ 115Vac, 89% @ 230Vac typical at full load
12. No Load Power: < 300mW @ 230Vac

B) PROTECTION

01. Overvoltage Protection: 110% to 130% of nominal output voltage, and less than 60Vdc
02. Short Circuit/Over-load: momentary short circuit protected, output will auto recover upon removal of short
03. Input Protection: Input line fusing and 300Vac MOV

C) SAFETY

01. Dielectric Withstand Voltage: 4000Vac / 5656Vdc from primary to secondary
02. [Output Isolation Options](#): Class I or Class II
03. Earth Leakage Current: Does not exceed 300uA in NORMAL CONDITION and 1000uA in SINGLE FAULT CONDITION
04. Output Leakage Current: Does not exceed 75uA NC(Normal condition) 300uA SFC(single fault condition)
05. Means of Protection: 2 x MOPP
06. Compliant Standards: See listings at end of this drawing for specifics

D) EMC

- EN 60601-1-2, 4th edition
- Emissions, per EN 55032, EN 61000-6-3, EN 61000-6-4, CISPR11 and CISPR22
- Conducted Emissions: Class B, FCC Part 15, Class B
 - Radiated Emissions: Class B, FCC Part 15, Class B
- Line Frequency Harmonics EN61000-3-2, Class A
- Voltage Fluctuations/Flicker EN61000-3-3
- Immunity, per EN 55024, EN 61000-6-1, EN 61000-6-2
- Static Discharge Immunity EN61000-4-2, 10kV Contact Discharge, 20kV air discharge
 - Radiated RF Immunity EN61000-4-3, 10V/m 80-1000MHz, 3V/m 1-2.7GHz, 80% 1KHz AM.
 - EFT/Burst Immunity EN61000-4-4, 4kV/100kHz.
 - Line Surge Immunity EN61000-4-5, 2kV differential, 4kV common-mode
 - Conducted RF Immunity EN61000-4-6, 3Vrms, 80% 1KHz AM
 - Power Frequency Magnetic Field Immunity EN61000-4-8, 3A/m
 - Voltage Dip Immunity EN61000-4-11, Criteria

E) OTHER

01. MTBF: 1,000,000 Hours @ 45°C ambient temperature, Full Load
02. Operating Temperature: -10°C to 45°C ambient temperature
03. Humidity: 0% to 95% relative humidity

PROPRIETARY INFORMATION

PROPRIETARY OF GLOBTEK, INC. ANY REPRODUCTION, DISCLOSURE OR USE OF THIS DRAWING, IN WHOLE OR IN PART, IS HEREBY PROHIBITED EXCEPT AS SPECIFIED IN WRITING BY GLOBTEK, INC.

<http://en.globtek.com/datasheet/id/a00a000000k8glu>

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- 04. Storage Temperature: -30°C to 80°C
- 05. Cooling: Convection
- 06. Elevation: 5000M
- 07. ROHS 2: Complies with EU 2011/65/EU and China SJ/T 11363-2006

F) MECHANICAL FORMAT

- 01. Type: Open Frame
- 02. Size: A suffix version, (2"x3"), 76.2 x 50.8 x 30.5 mm
- 03. Size: B suffix version, (2"x4"), 101.6 x 50.8 x 30.5 mm
- 04. Size: C suffix version, (3"x5"), 127.0 x 76.2 x 30.5 mm

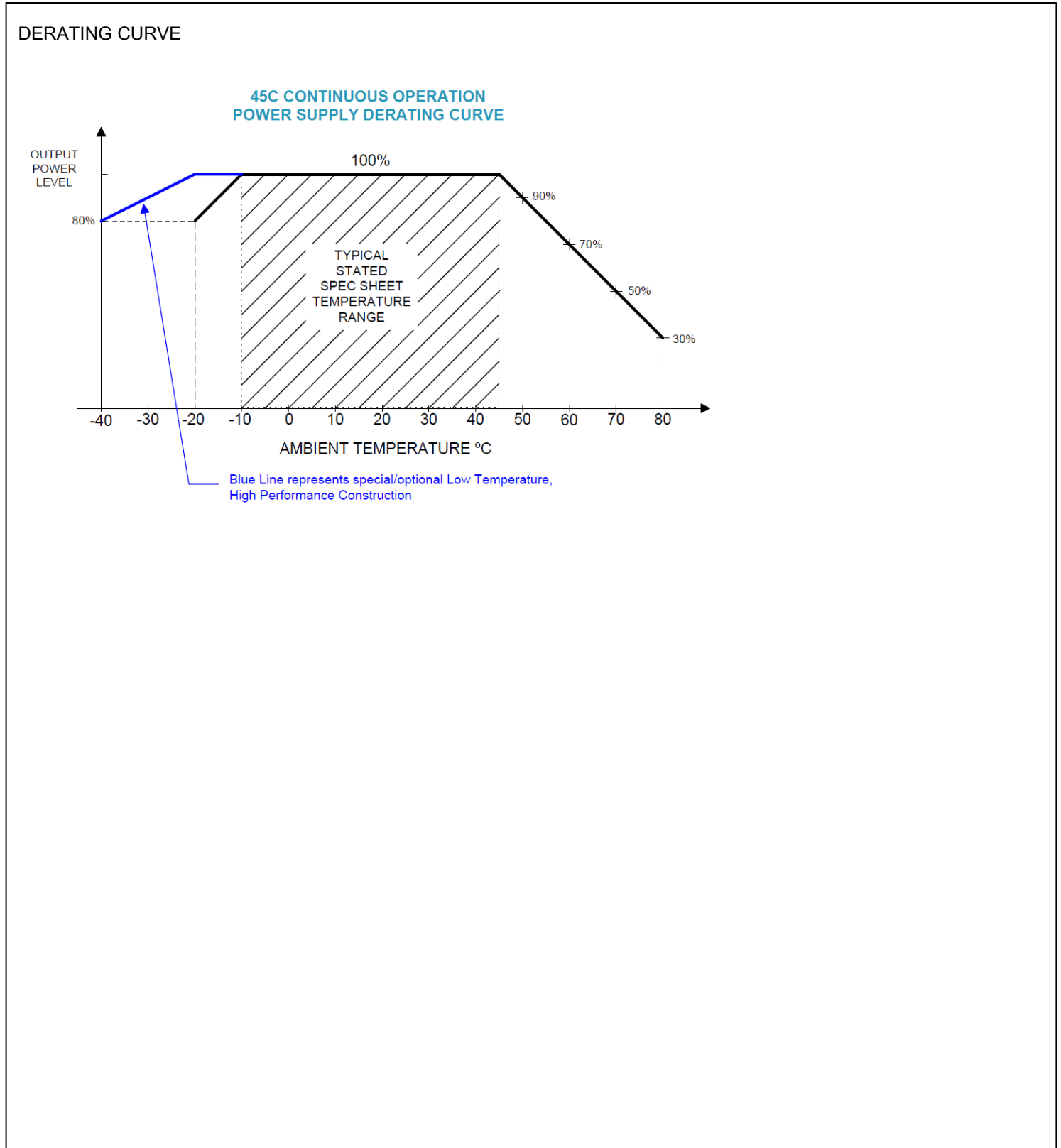
G) SPECIAL OPTIONS

- 01. Custom Label Markings
- 02. Short term Output Surge Capability
- 03. Reduced Leakage Current versions
- 04. Tightened output voltage tolerance
- 05. Reduced output ripple level
- 06. High Rel PCB laminate with Plated through Holes for IPC610 Class 2 Compliance
- 07. Low Temperature operation, down to -40°C
- 08. Quasi Constant Current Output, for Lead-Acid Battery Charger Applications
- 09. Special Input or Output Connectors
- 10. Over-Temperature Protection, Latched Shut-Down

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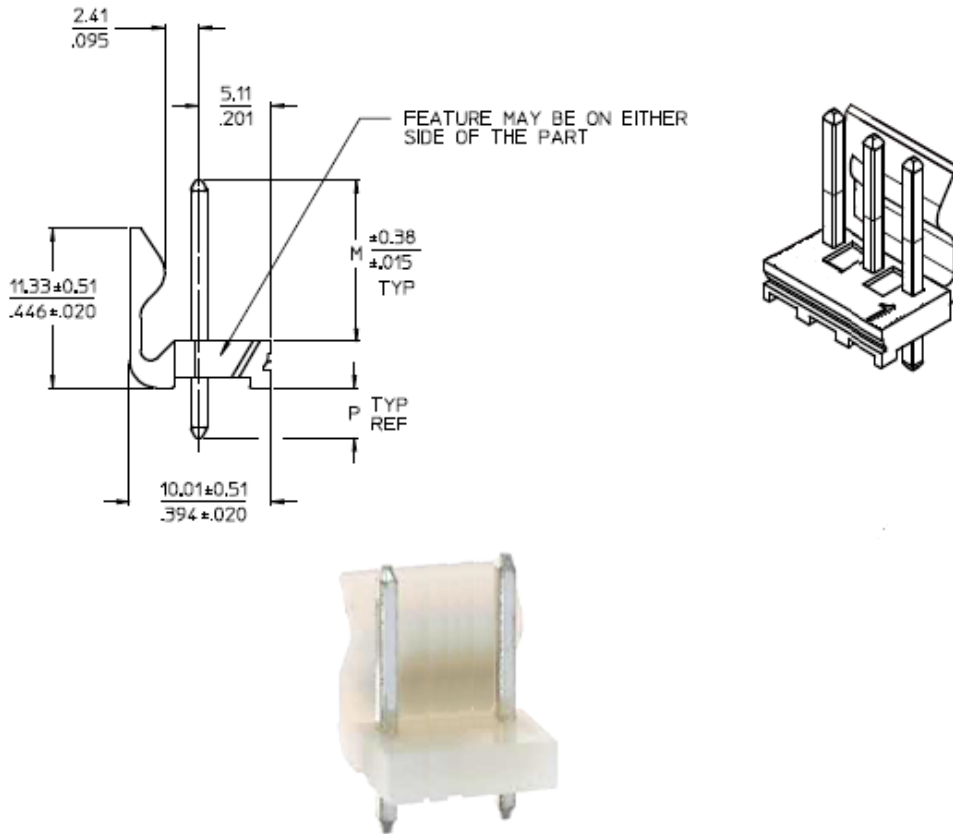
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Input Configuration

Description Molex 26-60-4030 3 Position Header Pin 1: Line, Pin 2: Removed, PIN 3: Neutral



Optional Input Wiring Kits are available:

PN/Ordering No	Length	End A	End B
XHP410070M7MLX3(R)	70JST	XHP-4	Molex 09-93-0300
C810070M6MLX3(R)	60IEC60320	C8	Molex 09-93-0300
C1410070M6MLX3(R)	60IEC60320	C14	Molex 09-93-0300














Custom lengths, construction, cable types, ferrites, filters, and termination available upon request.

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Approvals

Logo	Description
	Book 60335 up to 36 Volts
	60601-1 3rd Operating Instructions
No Logo Applicable No Logo	CB report IEC60601-1 2005 A1+C1+C2 2016-2-4 and or EN 60601-1:2006 3.1rd Edition 2xMOPP CB Report EN60950-1
No Logo Applicable	CB for IEC 62368-1:2014 (Second Edition)
No Logo Applicable	CB to 60335-1 5th Edition (Safety of Household and Similar Electrical Appliances, Part 1: General Requirements) CB Report/ Certificate IEC 60335-1:2010 Up to 36 volts only
	CE Certification CE Mark: tested to comply with EN 55032.2012+AC.2013 EN 61000-3-2.2014 EN 61000-3-3.2013 EN 60601-1-2.2015 EN 55024.2010
	CE Mark: tested to comply with EN 60601-1-2:2015 Medical electrical equipment Part 1-2: - Mark is on the label or Molded in the case
  Intertek	Audio/Video, Information And Communication Technology Equipment - Part 1: Safety Requirements [UL 62368-1:2014 Ed.2] Audio/Video, Information And Communication Technology Equipment - Part 1: Safety Requirements [CSA C22.2#62368-1:2014 Ed.2]
Conforms to ANSI/AAMI ES 60601-1:2005 Cert.to CAN/CSA Std. C22.2	cETLus ANSI_AAMI ES60601-1_2005
Conforms to ANSI/UL Std. 60950-1 Cert.to CAN/CSA Std. C22.2 NO. 60950-1	Conforms to ANSI/UL Std. 60950-1 2nd Edition Cert. to CAN/CSA Std.C22.2 NO.60950-1 2nd Edition
  Intertek 4007497	cETLus-Cert-4007497 ANSI/AAMI ES60601-1:2005 with AMD C1: 2009, AMD C2: 2010 and CAN/CSA-C22.2 No. 60601-1 2008 with COR 2:2011+ANSI/AAMI HA60601-1-11 Ed:1
	CHINA SJ/T 11364-2014, China RoHS Chart: http://en.globtek.com/globtek-rohs.php Declaration # EA3C N RU Д-US.AД75.B.01052 Custom Union of Russia, Belarus and Kazakhstan http://www.globtek.com/redirect/?loc=gost-certificate-eac-declaration
 T2.0A 250VAC 	FCC PART 15 CLASS B Fuse 60335 T2.0A 250VAC Up to 36 volts
	Indoor Use Only - Mark is on the label or Molded in the case
EFFICIENCY LEVEL 	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)

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	NEMKO IEC/EN 60335-1 (Safety of Household and Similar Electrical Appliances, Part 1: General Requirements) up to 36 Volts
IEC/EN60335-1	
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
	
Intertek IEC/EN60601-1 IEC/EN60950-1	Semko S-Mark-Cert-EN60601-1 and EN60950-1
	
10276	Ukraine UKRSepro (Document: www.globtek.com/html/iso_certificates/GT_Ukraine.pdf)
WDaE	Appliances can be used in warm damp equable climates
	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