

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

Model:GTM43004P-WWVV-x.x-F

June 26, 2022

## GTM43004P-WWVV-x.x-F

### Information

Model Number	GTM43004P-WWVV-x.x-F
Description	GTM43004P-WWVV-x.x-F, ICT / ITE / Medical Power Supply, Open Frame/Internal, Regulated Switchmode AC-DC Power Supply AC Adaptor, , Input Rating: 100-240V~, 50-60 Hz, Tyco 640445-5 3 Position Header PIN 1: EARTH, PIN 3: LINE, PIN 5: NEUTRAL, remove Pins 2 and 4, Output Rating: 120 Watts, Power rating with convection cooling (W) , 5-48V in 0.1V increments, Approvals: PSE; UKCA; NEMKO EN/IEC 60335-1; Book 60601; Fuse 60335; CB 60601-1; CE; cETLus ES60601; cETLus; cETLus 60601-1 3rd; Class I; Fuse 60335; GOST-R; Level V; RoHS; S-Mark IEC/EN 60601-1; Ukraine; VCCI; WEEE; China RoHS;

### Model Picture



For reference Only

Agency Documents	<a href="http://www.globtek.info/certs/GTM43004P/">http://www.globtek.info/certs/GTM43004P/</a>
CE EC-Declaration	<a href="https://www.globtek.com/pdf/ec_declaration/a0Oa000000HSoz8EAD">https://www.globtek.com/pdf/ec_declaration/a0Oa000000HSoz8EAD</a>
RoHS/RoHS2 Declaration	<a href="https://www.globtek.com/pdf/rohs_cert/a0Oa000000HSoz8EAD">https://www.globtek.com/pdf/rohs_cert/a0Oa000000HSoz8EAD</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**

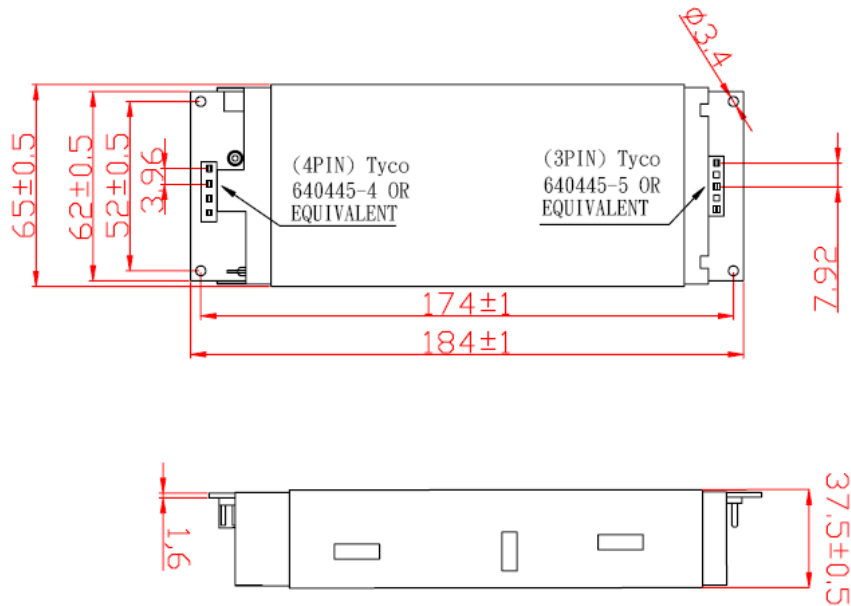
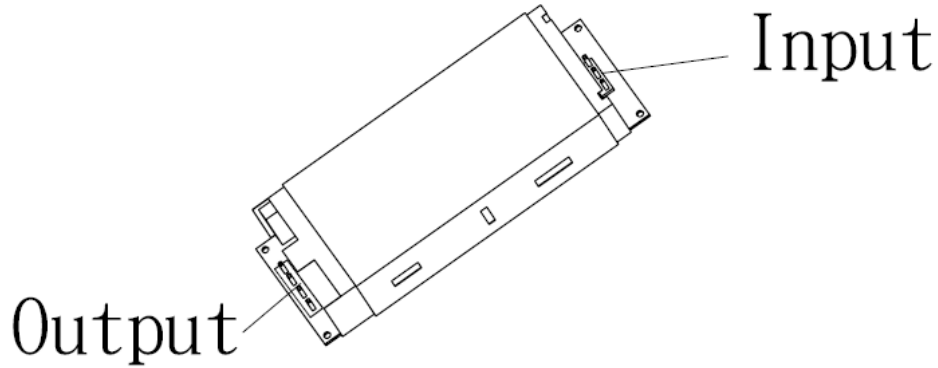
Type	Open Frame/Internal
Technology	Regulated Switchmode AC-DC Power Supply AC Adaptor
Category	ICT / ITE / Medical Power Supply
Input Voltage	100-240V~, 50-60 Hz
I/P Amps (A)	2.0A
Wattage (W)	120.0
Vout Range (V)	5-48
Efficiency Level	V
Ingress Protection	
Size (mm)	184.0*62.0*37.5

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# ENCLOSURE



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**RATING TABLE**

Model Number	Voltage	Amps(A)	Watts(W)	RFQ
GTM43004P-508.9-3.9-F	5 V	10	50.00	<a href="#">RFQ</a>
GTM43004P-608.9-2.9-F	6 V	10	60.00	<a href="#">RFQ</a>
GTM43004P-608.9-1.3-F	7.5 V	10	75.00	<a href="#">RFQ</a>
GTM43004P-9016-7.0-F	9 V	10	90.00	<a href="#">RFQ</a>
GTM43004P9016-4.0-F	12 V	7.5	90.00	<a href="#">RFQ</a>
GTM43004P-12016-4.0-F	12 V	10	120.00	<a href="#">RFQ</a>
GTM43004P-10016-1.0-F	15 V	6.7	100.50	<a href="#">RFQ</a>
GTM43004P-12016-1.0-F	15 V	8	120.00	<a href="#">RFQ</a>
GTM43004P-12024-6.0-F	18 V	6.66	119.88	<a href="#">RFQ</a>
GTM43004P-12024-5.0-F	19 V	6.3	119.70	<a href="#">RFQ</a>
GTM43004P-12024-4.0-F	20 V	6	120.00	<a href="#">RFQ</a>
GTM43004P-12024-F	24 V	5	120.00	<a href="#">RFQ</a>
GTM43004P-12035-5.0-F	30 V	4	120.00	<a href="#">RFQ</a>
GTM43004P-12048-12.0-F	36 V	3.33	119.88	<a href="#">RFQ</a>
GTM43004P-12048-12.0-F	36 V	3.33	119.88	<a href="#">RFQ</a>
GTM43004P-12048-F	48 V	2.5	120.00	<a href="#">RFQ</a>

## SPECIFICATIONS

### A) ELECTRICAL SPECIFICATIONS:

01. Input Voltage: 100-240 Vac
02. Input Frequency: 47 - 63 Hz
03. Output Regulation: +/- 5% measured at the output connector
04. Line Voltage Regulation: +/- 1% typical measured at the output connector
05. Output Ripple (Vp-p): +/-1% or 200 mV whichever is greater, measured at 20 MHz bandwidth with 0.1 uf ceramic capacitor in parallel with 47 uf electrolytic capacitor connected at the end of the output connector at nominal line
06. Turn-ON/OFF Overshoot: 10% maximum, 1 mS typical recovery time for 25% step load
07. Turn-ON Delay: 3000 mS, maximum @ full load, nominal line
08. Hold-Up Time: 10 mS typical @ nominal input voltage and full load
09. Inrush Current: 40A typical 115VAC input and 60A typical at 230VAC input
10. Switching Frequency: 100 KHz typical

### B) PROTECTION

01. Over-Voltage: AC cycling required to reset output
02. Short Circuit: AC cycling required to reset output
03. Input Protection: Input line fusing

### C) SAFETY

01. Protection class: Factory configured and labeled as Class I Functional Earth equipment. May be used as Class II equipment by physically removing(cutting) the Functional Earth terminal from the input connector (as provisioned by CB report). May be ordered as Class II with a 2 circuit input connector and double-box marking under an alternate ordering part number.
02. Dielectric Withstand Voltage: 5656 Vdc from primary to secondary
03. Earth Leakage Current: Maximum allowed values: 5 mA NC(Normal condition); 10 mA SFC(single fault condition)
04. Touch Current: Maximum allowed values: 100uA NC(Normal condition) 500uA SFC(single fault condition)
05. Means of Protection: 2 x MOPP
06. Primary to Secondary Bridging Capacitor: (2) \* Y1 type capacitors in series

### D) 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: -10°C to 80°C
05. Cooling: Convection

### E) ENCLOSURE

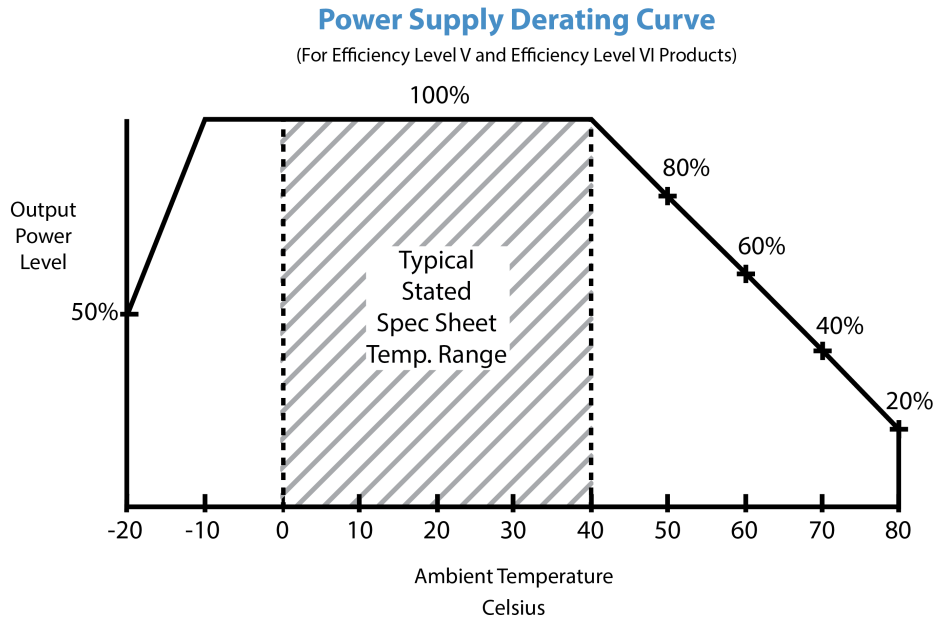
01. Open Frame
02. Size: 184.0\*62.0\*37.5 mm +/-1.0 mm
03. Markings: Label
04. GREEN LED to indicate power ON

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# DERATING CURVE



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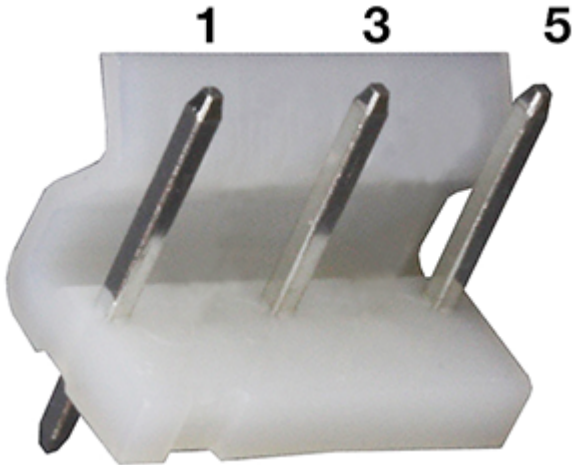
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**INPUT CONFIGURATION**

Description Tyco 640445-5 3 Position Header PIN 1: EARTH, PIN 3: LINE, PIN 5: NEUTRAL, remove Pins 2 and 4









Product Details: <http://www.te.com/catalog/pn/en/640445-5?RQPN=640445-5>



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## Approvals









Logo	Description
	Book 60335 up to 36 Volts
	60601-1 3rd Operating Instructions
No Logo Applicable	CB report IEC 60601-1: 2005 + CORR. 1 (2006) + CORR. 2 (2007) and or EN 60601-1:2006 3rd Edition including 2MOOP requirements
	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
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
	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: <a href="http://en.globtek.com/globtek-rohs.php">http://en.globtek.com/globtek-rohs.php</a>
	Fuse IEC 60335 T4.0A 250VAC
	GOST-R mark for Russia(Document: <a href="http://www.globtek.com/html/iso_certificates/GT_GOST-R.pdf">http://www.globtek.com/html/iso_certificates/GT_GOST-R.pdf</a> ). 03/15/2015. Due to lack of demand, GlobTek will not be renewing it's GOST certification. Please contact your sales engineer for pricing on EAC.
	Indoor Use Only - Mark is on the label or Molded in the case



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<b>EFFICIENCY LEVEL</b> 	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)
 <b>IEC/EN60335-1</b>	NEMKO IEC/EN 60335-1 (Safety of Household and Similar Electrical Appliances, Part 1: General Requirements) up to 36 Volts
 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: <a href="http://en.globtek.com/importing-to-japan.php">http://en.globtek.com/importing-to-japan.php</a> .
RoHS	Specifications of directive 2011/65/EU Annex VI (ROHS-2) with amendment 2015/863-EU (ROHS-3) <a href="http://www.ce-mark.com/Rohs%20final.pdf">http://www.ce-mark.com/Rohs%20final.pdf</a>
 Intertek IEC/EN60601-1	Semko S-Mark-Cert-EN60601-1 3.1rd Edition ( <a href="http://www.intertek.com/marks/s/">http://www.intertek.com/marks/s/</a> )
	UKCA Certification
 10276	Ukraine UKRSepro (Document: <a href="http://www.globtek.com/html/iso_certificates/GT_Ukraine.pdf">www.globtek.com/html/iso_certificates/GT_Ukraine.pdf</a> )
	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