May 20, 2024

Model:GTM962253PWWWVV-P3



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

GTM962253PWWWVV-P3	
Information	
Model Number	GTM962253PWWWVV-P3
Description	GTM962253PWWWVV-P3, ICT / ITE / Medical Power Supply, 60601-1-4th Ed., Potted, Regulated Switchmode AC-DC Power Supply AC Adaptor, , Input Rating: 100-240V~, 50-60 Hz, Contact GlobTek for customization requests on any type of cable in any customer specified lengths., Output Rating: 225 Watts, Power rating with convection cooling (W) , 12-54V in 0.1V increments, Approvals: IP68;
Model Picture	
Agency Documents	http://www.globtek.info/certs/GTM96225xP%20/
CE EC-Declaration	https://www.globtek.com/pdf/ec_declaration/a0O3a00000MIVt2EAF
RoHS/RoHS2 Declaration	https://www.globtek.com/pdf/rohs_cert/a0O3a00000MIVt2EAF
REACH Declaration	https://www.globtek.com/pdf/iso_certificates/REACH.pdf
Conflict Minerals Declaration	https://www.globtek.com/pdf/conflict-minerals.pdf

186 Veterans Dr, Northvale NJ 07647, USA 1-201-784-1000

Model:GTM962253PWWWVV-P3

\begin{bmatrix} GlobTek Inc.◎

http://www.globtek.com/iso-certificates.php

May 20, 2024

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

MODEL PARAMETERS	
Туре	Potted
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)	3A
Wattage (W)	225.0
Vout Range (V)	12-54
Efficiency Level	USA DOE Level VI / Eco-design Directive 2009/125/EC, (EU) 2019/1782
Ingress Protection	IP68
Size (mm)	181.0 (L) x 70.0(W) x 39.0 (H)

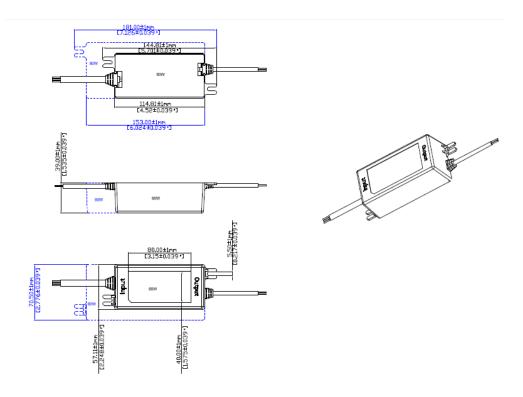


Delivering leading edge, innovative power solutions for more than 30 years....

Model:GTM962253PWWWVV-P3

May 20, 2024

ENCLOSURE



The black outlined drawing represents a housing which is being phased out due to end of usable life of the mold used to make it. The blue outlined drawing is the replacement housing. Both may be used interchangeably and mixed within any given lot.





GlobTek Inc.®

186 Veterans Dr, Northvale NJ 07647, USA 1-201-784-1000

http://www.globtek.com/iso-certificates.php

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

Model:GTM962253PWWWVV-P3

May 20, 2024

IV TINO IT OLL	RATING	TABLE
----------------	---------------	-------

Model Number	Voltage	Amps(A)	Watts(W)	RFQ
GTM962253P22516-P3	16 V	14.06	224.96	RFQ
GTM962253P22518-P3	18 V	12.5	225.00	RFQ
GTM962253P22536-P3	36 V	6.25	225.00	RFQ

May 20, 2024



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

SPECIFICATIONS

Model:GTM962253PWWWVV-P3

Features

- High power density potted construction
- Low conducted & radiated EMI: Class B without external filters or ferrites (all input configurations, into resistive load)
- Class I, Class II, or Class II with Functional Earth input configurations
- ITE/ICT and medical (2 x MOPP) certified (suitable for Type-B or Type-BF applications)
- Auxiliary +12V output

Input

Input Voltage:	Specified: 85-264VAC, Nameplate: 100-240VAC
Input Frequency:	Specified: 47-63Hz, Nameplate: 50-60Hz
Input Current:	2.75A typ. @ 85VAC, 1.0A typ. @ 230VAC (full load)
No Load Input Power:	<150mW
Inrush Current:	<75A @ 230VAC (cold start @ 25°C)
Efficiency:	90 - 95% typ. (full load)
Power Factor:	>0.90 @ 115VAC, >0.85 @ 230VAC, 140W output

Output

Output Power:	140W continuous
Turn-on Delay:	< 1 second @ 85VAC
Output Voltage Tolerance:	± 2.0% (worst case, set point + load/line regulation)
Load Regulation:	± 0.5% (measured at connector)
Line Regulation:	± 0.2% (measured at connector)
Ripple:	1% pk-pk (using a 47 μF low-ESR cap + 0.1 μF ceramic capacitor, measured @ 20MHz BW)
Transient Response:	<5% deviation (with 25% load step), recovery to within 1% in 1ms
Startup Overshoot:	<5% (full load)
Hold-up Time:	10ms min. (full load)
	12V \pm 2V (10V min. / 14V max.), for 0A \leq I _{Aux} \leq 0.8A
Aux Output Voltage Regulation:	Aux regulation guaranteed when main output power ≥ 25% of 140W rating (~34W).
	For main output power < 25%, aux output voltage may drop to < 50% of nominal rating,
	depending on aux output load. Please check with your system.
	For main output = 12V, aux output voltage is same as main output.
Aux Output Current:	0.8A

Protections



186 Veterans Dr, Northvale NJ 07647, USA 1-201-784-1000

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

odel:GTM962253PWWWVV-P3	May 20, 2	
Input Protection:	MOV transient suppressor, dual fuses (line + neutral)	
Over-Voltage Protection:	110-130%, latched-off, cycle AC to reset	
Over-Current Protection:	130% typical, auto-recovery	
Short Circuit Protection:	Auto-recovery	
Over-Temperature Protection:	NTC temperature sensor embedded in transformer, trip between 115 - 120°, latched-off, cycle AC to reset (auto-recovery available as special option)	
Environmental		
MTBF:	1,500,000 hours @ 25°C ambient, full load (Telcordia SR-332, Issue 3)	
Operating Temperature:	-20°C to 50°C (full output power), -25°C to 80°C (de-rated)	
Storage Temperature:	-30°C to 85°C	
Humidity:	0% to 95% relative humidity, non-condensing	
Altitude:	5000m max.	
Vibration:	Conforms to EN60068-2-6, ISO80601-2, EN1789	
Safety		
Dielectric Withstand Voltage:	4000VAC or 5656VDC from input to output 3000VAC or 4242VDC from input to earth	
ntended Medical Application:	Type-B or Type-BF	
Touch Current:	3-conductor input - NC: <25μA, SFC: <200μA 2-conductor input - NC: <65μA, SFC: <140μA	
Earth Leakage Current	3-conductor input: <200μA 2-conductor input: N/A	
Means of Protection:	2 x MOPP	
Primary-Secondary Bridging Capacitance:	Two IEC60384-14 certified Y1 capacitors in series	
EMC		
Applicable Standards:	Medical: EN60601-1-2, 4th edition Emissions: EN55032, EN 55011, EN61000-6-3, EN61000-6-4, CISPR11/CISPR22 Immunity: EN55024, EN61000-6-1, EN61000-6-2	
Conducted Emissions:	Class B, FCC Part 15, Class B (with resistive load)	
Radiated Emissions:	Class B, FCC Part 15, Class B (with resistive load)	
Harmonic Current Voltage Distortion:	EN61000-3-2, Class A	
Voltage Fluctuations/Flicker:	EN61000-3-3	
Electrostatic Discharge (ESD) Immunity:	EN61000-4-2, 10KV contact discharge, 20KV air discharge (applied to input or output terminals)	
Radiated RF Immunity:	EN61000-4-3, 20V/m 80-2700MHz, 80% 1KHz AM, 80% 5Hz AM	
EFT/Burst Immunity:	EN61000-4-4, 4KV/100kHz.	
Line Surge Immunity:	EN61000-4-5, 2KV differential, 4KV common-mode	

PROPRIETARY INFORMATION





GlobTek Inc.®

http://www.globtek.com/iso-certificates.php

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

Model:GTM962253PWWWVV-P3		May 20, 2024
Conducted RF Immunity:	EN61000-4-6_3VRMS_(6VRMS in ISM/amateur hands)_80%_1KHz_AM	

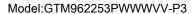
Conducted RF Immunity:	EN61000-4-6, 3VRMS, (6VRMS in ISM/amateur bands), 80% 1KHz AM
Power Frequency Magnetic Field Immunity:	EN61000-4-8, 30A/m
Voltage Dip Immunity:	EN61000-4-11

Special Options

- Custom labels/markings
- Custom input/output cable assemblies
- Short term output surge capability
- Reduced touch current
- Reduced output ripple
- Compliance to IPC-600, IPC-610, IPC-6012 Class 2 or 3
- IEC61000-3-2 Class-C line harmonics for LED lighting applications
- Non-latching (auto-recover) over-temperature protection
- Potentiometer to adjust/trim output voltage
- Custom aux output voltages (5V to 12V), available for main output voltages from 12-24V

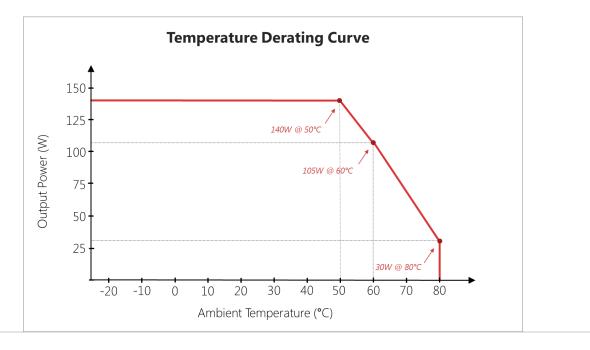


Delivering leading edge, innovative power solutions for more than 30 years....



May 20, 2024





May 20, 2024

186 Veterans Dr, Northvale NJ 07647, USA 1-201-784-1000

Model:GTM962253PWWWVV-P3

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

INPUT CONFIGURATION	
Description	Contact GlobTek for customization requests on any type of cable in any customer
	specified lengths.







₹ GlobTek Inc.®

http://www.globtek.com/iso-certificates.php

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

Model:GTM962253PWWWVV-P3	May 20, 2024
Approvals	
Logo	Description
IP68	Ingress Protection: ?IP68 to IEC60529:2001 Totally dust tight and Protected against long periods of immersion under pressure

PROPRIETARY INFORMATION