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USE TOSHIBA P/N: TK20A60V MOSFET FOR BOARD LOCATION Q1

D



НМ

06/27/11

1. NOTES:

DIMENSIONS ARE IN MM UNLESS SPECIFIED OTHERWISE.

2. ELECTRICAL SPECIFICATIONS:

INPUT VOLTAGE: 90 VAC TO 264 VAC

INPUT CURRENT: < 1.3 A RMS AT 90 VAC INPUT

INPUT FREQUENCY: 47 HZ - 63 HZ

OUTPUT VOLTAGE / CURRENT: + 5 VDC @ 0 - 5.0 A; +12 VDC @ 0-1.5A; -12 VDC @ 0-0.5A

OUTPUT CURRENT: MIN. LOAD REQUIRED AT LEAST 20% OF TYPICAL MAIN

OUTPUT CURRENT IS REQUIRED TO MAINTAIN STATED REGULATION

REMOVE 'TUV', UPDATE LABEL, RFS. 21154, BS

OUTPUT POWER (RATED): 50 WATTS MAX

OUTPUT RIPPLE (PEAK TO PEAK): ≤ 1% OR 100mV MAX, WHICHEVER IS SMALLER, FOR ALL OUTPUT

OUTPUT REGULATION (LINE/LOAD): \pm 5 % FOR MAIN OUTPUT, \pm 10% FOR SECOND AND

± 1.5% FOR THIRD OUTPUT

TURN ON/ TURN OFF OVERSHOOT: 4% MAX 500 uS MAX RECOVERY TIME FOR 25% STEP LOAD

TURN-ON DELAY: 1 SEC MAX

HOLD-UP TIME: 16 mSEC MIN AT NOMINAL INPUT AND FULL LOAD INRUSH CURRENT: 20 A MAX AT COLD START FOR N.A. (40A FOR EURO)

EFFICIENCY: 75 % TYPICAL SWITCHING FREQUENCY: 44 KHZ TYPICAL ADJUSTABILITY: FACTORY SET

OVER-VOLTAGE PROTECTION: VOLTAGE LIMITED LESS 130% OF NOMINAL VOLTAGE FOR MAIN

OUTPUT

OVER-CURRENT / SHORT CIRCUIT: 1.1 - 1.3 IO HICCUP WITH AUTO RECOVERY

OTHER PROTECTION: INPUT FUSING

SAFETY APPROVALS : UL 60950 / 1950, CULTO 22.2 # 234, 950, CE CLASS I

DIELECTRIC WITHSTAND VOLTAGE: 1500VAC PRIMARY-SECONDARY;1500 VAC PRIMARY- GROUND

LEAKAGE CURRENT: 3.5 mA MAX

EMI: COMPLIES WITH EN55022, CLASS B AND

FCC PART 15 CLASS B WHEN TESTED WITH A RESISTIVE

LOAD, BOTH CONDUCTED AND RADIATED

CE MARK: TESTED TO COMPLY WITH EN61000-3-2, EN61000-3-3 AND EN50082-1

INCLUDING EN61000-4-2, EN61000-4-3, EN61000-4-4, EN61000-4-5, EN61000-4-6, EN61000-4-11, UNIT IS ELIGIBLE FOR CE MARK.

MTBF: 200,000 HOURS AT 25°C AMBIENT TEMPERATURE

OPERATING TEMPERATURE: 0°C TO 40° C STORAGE TEMPERATURE: -20°C TO 85° C

HUMIDITY: 0% TO 90% RELATIVE HUMIDITY

WEIGHT: 531 g

ROHS: COMPLIES WITH EU 2002/95/EC AND CHINA SJ/T 11363-2006

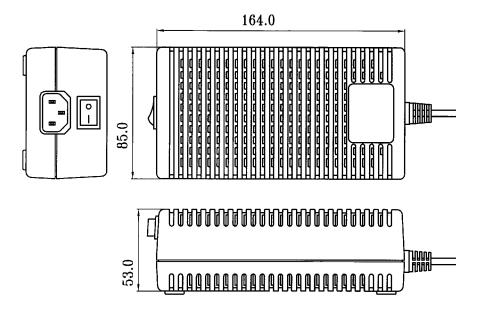
Foot Note: Globtek Inc. will not be liable for the safety and performance of these power supplies if unauthorized access and repair occurs. End user should consult applicable UL, CSA or EN standards for proper installation instructions Limitation of Use: Globtek product are not authorized for use as mission critical components in life support, hazardous environment, nuclear or aircraft applications without prior written approval from the CEO of Globtek Inc. Contents of this document are subject to change without prior notice	DASH NO.	PART NO	REV.		DESCRIPTION	NOTES	
	TABULATION BLOCK						
			DECI	LERANCES: MALS ANGULAR -/- 0.1 +/- 1*	GlobTek, Inc. 186 Veterans Dr. Northy		
			.xxx +/005		www.globtek.com	201.704.0111	
	INIT.BY: BS	DATE: 09/24/08	.xx +	METERS ANGULAR +/- 0.3 +/- 1* +/013	DWG TITLE: TRIPLE OUTPUT SWITCHING POWER SUPE 5V@5A, +12V@1.5A, -12V@0.5A, DESKTOP, UNIVERSAL	LY 50 WATTS INPUT	
	DRAWN: N	DATE: 09/24/08	FSCN G, N	No.: SIZE A	MODEL NO: HES61-30	REV. D	
	APRVD : H	M DATE: 09/24/08	SCA	LE: NONE	PART NO: TR9CV5000N05-R(R)	SHEET 1 OF 3	

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3. ENCLOSURE

UPPER HOUSING: HIGH IMPACT PLASTIC, 94V0 POLYCARBONATE, COLOR BLACK LOWER HOUSING: HIGH IMPACT PLASTIC 94V0 POLYCARBONATE, COLOR BLACK SIZE: $164 \times 85 \times 55 \pm 1$ mm



4. INPUT CONNECTOR:

CONFIGURATION: CLASS 1 MODEL IEC320 / C14, AC POWER RECEPTACLE WITH 3 MALE PRONGS

5. OUTPUT CORD:

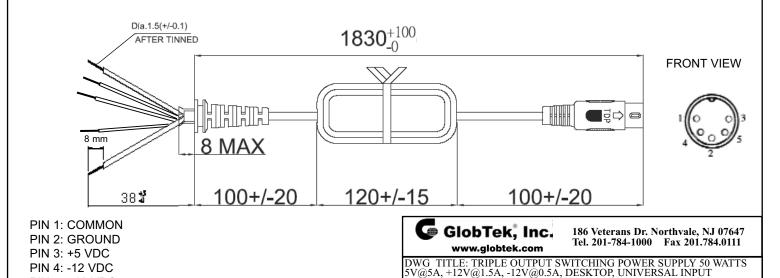
PIN 5: +12 VDC

SHELL: N/C

5 CONDUCTOR: 2 CONDUCTORS, 20 AWG STRANDED WIRE AND 3 CONDUCTORS, 18 STRANDED WIRE, ROUND UL 2464 CORD TYPE, COLOR BLACK, LENGTH OF CORD: 1830+100,-0 mm. CORD IS MEASURED FROM THE HOUSING TO THE END OF OVERMOLD OF THE CONNECTOR. CABLE IS TO BE MARKED WITH WIRE GAUGE, AND ALL APPLICABLE RATING AND SAFETY APPROVALS.

6. OUTPUT CONNECTOR:

5 PIN MALE DIN CONNECTOR WITH 180° PIN SPAN



MODEL NO: HES61-30

PART NO: TR9CV5000N05-R(R)

REV.

D

SHEET 2 OF 3

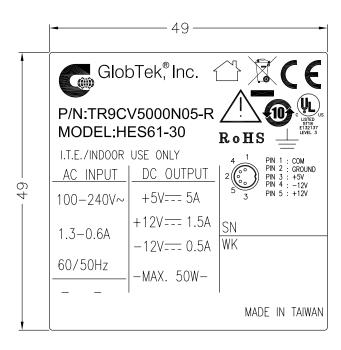
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8. LABEL:

MATERIAL: .007 (0.18) THICK FLAT THERMAL TRANSFER, IMPRINTABLE, WHITE OR GRAY POLYESTER SHEET WITH BLACK NOMENCLATURE.

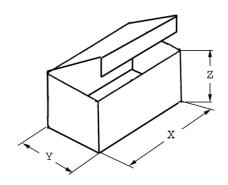
MANUFACTURER: STEVEN LABEL, MATERIAL I.D. NO.3302-33, UL FILE NO. MH12821(N), UL MATERIAL DESIGNATION FILE NO. GHW332RL. OPTIONAL LABEL MATERIAL CAN BE SUBSTITUTED PROVIDING MATERIAL IS UL LISTED AND COMPLEIS WITH APPLICABLE SAFETY REQUIREMENTS.



ACTUAL POSITIONING OF SYMBOLS AND TEXT IS SUBJECT TO CHANGE AT TIME OF MANUFACTURE

9. INDIVIDUAL PACKING BOX:

MATERIAL: CORRUGATED FIBERBOARD, F-FLUTE 0.8 (2.0) THICK, DOUBLE WALL CONSTRUCTION. EXTERNAL FINISH: WHITE, COATED WITH GLOSS FINISH (AQUEOUS OR VARNISH) STYLE: TUCK SIDES WITH LOCKING TABS ON BOTH SIDES OF BOX. NO PRINTING ON THE OUTSIDE OF BOX.



X = 245 mm Y = 135 mm Z = 90 mm

GlobTek, Inc.	186 Veterans Dr. Northval Tel. 201-784-1000 Fax 20					
DWG TITLE: TRIPLE OUTPUT SWITCHING POWER SUPPLY 50 WATTS 5V@5A, +12V@1.5A, -12V@0.5A, DESKTOP, UNIVERSAL INPUT						
MODEL NO: HES61-30		REV. D				
PART NO: TR9CV5000N05-R(R))	SHEET 3 OF 3				