Dual-High Voltage DC/DC Switching Power Supply

The Dual High-Voltage Power Supply consists of two (2) separate circuits combined into one PC assembly. Thru-hole & SMD technology, housed in metal (Al alloy) enclosure. These circuits are individually testable and have completely separate test requirements as such.

The two regulator circuits are:

1. 2.1.1. 312 V @ 0 - 50mA Power Supply Circuit
2. 2.1.2. 30 kv to 6.5 kv @ 0-50ua (Programmable) High-Voltage Supply Circuit.

These circuits are DC/DC parallel quasi-resonant Flyback converter type and require an external 12vdc source as input for operation.

Electrical Specifications:

312 V Converter Section
Input Voltage: 12.0 V + 1% (11.88 to 12.12) @ 3 A Max, DC Source.
Input Current: < 1.3A @ 11.88 V Input Min. - With output set to 312.00 @ 30 MA
Input Ripple: < 500 MV PPK (DC Source)
Efficiency: (Full Load) 70% @ 11.88v Input Min.

3 KV DC to 6.5 KV DC High-Voltage Converter Section
Input Voltage: 3KV +3% to 6.5 KV +3% 0-50 Micro-amps proportional to Vprog where 1V = 1 KV.

Specifications may change without prior notice. Consult GlobTek Customer Service for latest specifications.
MECHANICAL

CONFIGURATION: ENCLOSED SWITCHING POWER SUPPLY. 040" AL. ALLOY 5052-H34 OR EQUIVALENT, CHEM TREATED, BRUSH FINISH. BOTTOM COVER: ‘U’ CHANNEL WITH MOUNTING TABS, (4) ELONGATED 0.100 IN DIA. FOR (4) 8-32 THREADED STUDS MOUNT, AS SHOWN BELOW; CASE, MULTI-FOLD WITH CAPTIVE, BALK HEADED, INPUT AND OUTPUTS (2) CONNECTORS AND (4) MOUNTING INSERT 4-40, AS SHOWN BELOW. OVERALL MAX. DIMENSIONS: (5.75L X 4.25W X 2.06H) INCH / (146.5L X 106.5W X 50.5H) MM.
**Dual-High Voltage DC/DC Switching Power Supply**

**MECHANICAL**

CONFIGURATION: ENCLOSED SWITCHING POWER SUPPLY, .040” AL. ALLOY 5052-H34 OR EQUIVALENT, CHEM. TREATED, BRUSH FINISH, BOTTOM COVER: ‘U’ CHANNEL WITH MOUNTING TABS, (4) ELONGATED 0.100 IN DIA, FOR (4) 8-32 THREADED STUDS MOUNT, AS SHOWN BELOW; CASE, MULTI-FOLD WITH CAPTIVE, BALK HEADED, INPUT AND OUTPUTS (2) CONNECTORS AND (4) MOUNTING INSERT 4-40, AS SHOWN BELOW. OVERALL MAX. DIMENSIONS: ( 5.75L X 4.25W X 2.06H) INCH / (146.5L X 106.5W X 50.5H) MM

**INPUT CONNECTOR:**
FULLY POLARIZED, NYLON UL 94V-0 HOUSING, MATE-N-LOCK CONNECTOR, 9 PINS, ‘LIVE SPLIT’ MODEL.
AMP PIN: 640501-1; CONNECTOR COLOR: BRICK-RED, BALK HEADED THROUGH METAL CASE AND SOLDERED ON THE INPUT POWER DISTRIBUTION PCB.
HEADER MATES WITH AMP PIN: 640521 OR EQUIVALENT.
PER MANUFACTURER, TYCO ELECTRONICS, SPECIFICATION # 108-1078 REV.0 CONNECTOR MAY REQUIRE SLIGHT ADJUSTMENT PRIOR TO MATING

**OUTPUT CONNECTOR:**
FULLY POLARIZED NYLON UL 94V-0 HOUSING, UNIVERSAL MATE-N-LOCK, 600V INSULATION RANGE, 100 IN DIA., 10 KV DIELECTRIC WITHSTAND VOLTAGE BETWEEN ADJACENT CIRCUITS, AMP PIN: 1-480699-0 2 PINS, 19A MAX, PIN AMP PIN: 350561-1.
CONNECTOR COLOR: NATURAL, BALK HEADED THROUGH METAL CASE AND (+,-) RED, BLACK AWG 18 STRANDED WIRES SOLDERED TO MOTHER PCB.
HEADER MATES WITH AMP PIN 350582 OR EQUIVALENT.

**MARKING:**
SILK SCREEN ON CASE, TOP SURFACE, AS SHOWN; MARKING SYSTEM(S), UL FILES MH17427 AND MH 17292.

WARNING LABEL, AFFIXED INTERNAL TO CASE: MATERIAL: .007 (0.18) THICK FLAT THEMAL TRANSFER, IMPRINTABLE, POLYESTER MATERIAL WITH BLACK TEXT ON WHITE BACKGROUND.

MANUFACTURER: STEVEN LABEL, MATERIAL I.D. NO:3302-33, UL FILE NO:MH128221(N), UL MATERIAL DESIGNATION FILE NO:GHW332RL. OPTIONAL LABEL MATERIAL CAN BE SUBSTITUTED. PROVIDING MATERIAL IS UL LISTED AND COMPLIES WITH APPLICABLE SAFETY REQUIREMENT.

**SPECIFICATIONS MAY CHANGE WITHOUT PRIOR NOTICE. CONSULT GLOBTEK CUSTOMER SERVICE FOR LATEST SPECIFICATIONS.**