

INSTALLATION INSTRUCTION

TET3000-12-069RA / TET3200-12-069RA AC-DC Power Supply

READ THIS CAREFULLY BEFORE INSTALLATION!	VOR DER INSTALLATION BITTE FOLGENDE SICHERHEITSHINWEISE BEACHTEN!	LEGGERE ATTENTAMENTE PRIMA DELL'INSTALLAZIONE!	A LIRE ATTENTIVEMENT AVANT L'INSTALLATION!
<p>Before operating, read this document thoroughly and retain it for future reference. Non-respect of these instructions may reduce performances and safety of the devices and cause danger for people and property. The products must be installed, operated, serviced and maintained by qualified personnel in compliance with applicable standards and regulations. Do not open the device, it does not contain replaceable components, the tripping of the internal fuse (if included) is caused by an internal failure. Do not repair or modify the device, if malfunction or failure should occur during operation, send unit to the factory for inspection. No responsibility is assumed by Bel Power Solutions for any consequences deriving from the use of this material.</p>	<p>Lesen Sie dieses Dokument vor der Inbetriebnahme sorgfältig durch und bewahren Sie es zum späteren Nachschlagen auf. Die Nichtbeachtung dieser Anweisungen kann die Funktion und Sicherheit der Geräte beeinträchtigen und birgt Gefahren für Personen und Eigentum. Die Geräte müssen von qualifiziertem Personal unter Einhaltung der geltenden Normen und Vorschriften installiert, betrieben, gewartet und instand gehalten werden. Öffnen Sie das Gerät nicht, es enthält keine austauschbaren Komponenten, das Auslösen der internen Sicherung (falls vorhanden) ist stets auf tiefergehende Fehler im Schaltkreis zurück zu führen. Reparieren oder modifizieren Sie das Gerät nicht. Sollte während des Betriebs eine Fehlfunktion oder ein Defekt auftreten, schicken Sie das Gerät zur Überprüfung ins Werk. Bel Power Solutions übernimmt keine Haftung für die Folgen, die sich aus dem Einsatz dieses Gerätes ergeben.</p>	<p>Prima dell'installazione, leggere attentamente questo documento istruzioni e conservarle per future consultazioni. L'inosservanza delle presenti istruzioni può compromettere le caratteristiche e la sicurezza dell'apparecchio e causare pericolo per le persone e le cose. Il prodotto deve essere installato, utilizzato e riparato da personale qualificato e nel rispetto delle normative vigenti. Non aprire il prodotto, esso non contiene componenti sostituibili, il guasto del fusibile interno (se previsto) è causato da un guasto interno. Non tentare di riparare o modificare il prodotto, se durante il funzionamento si verificano guasti o anomalie, inviarlo al produttore per il controllo. Bel Power Solutions non si assume nessuna responsabilità per qualunque conseguenza derivante dall'uso di questo materiale.</p>	<p>Lire ces instructions avant l'installation, conserver ce manuel pour référence future. Défaut de se conformer à ces instructions peut affecter les caractéristiques et la sécurité du dispositif, et causer du danger aux personnes ou aux biens. Les produits doivent être installés, exploités et entretenus par du personnel qualifié et en conformité avec les règlements. N'ouvrez pas le produit, il ne contient aucune pièce réparable, le déclenchement du fusible interne (le cas échéant) est causé par un défaut interne. Ne pas essayer de réparer ou modifier le produit ; si des défaillances se produisent pendant le fonctionnement, retourner le produit au fabricant pour inspection. Bel Power Solutions n'assume aucune responsabilité des conséquences éventuelles découlant de l'utilisation des produits.</p>
CAUTION	ACHTUNG	ATTENZIONE	AVERTISSEMENT
<p>RISK OF BURNS, EXPLOSION, FIRE, ELECTRICAL SHOCK, PERSONAL INJURY. Never carry out work on live parts! Danger of fatal injury! The product's enclosure may be hot, allow time for cooling product before touching it. Do not allow liquids or foreign objects to enter into the products. To avoid sparks, do not connect or disconnect the device before having previously turned-off input power and wait for internal capacitors discharge (minimum 2 minutes).</p>	<p>GEFAHR VON VERBRENNUNGEN, EXPLOSIONEN, FEUER, STROMSCHLAG, PERSONENSCHÄDEN. Führen Sie niemals Arbeiten an spannungsführenden Teilen durch! Gefahr von tödlichen Verletzungen! Das Gehäuse des Gerätes kann heiß sein, lassen Sie Zeit zum Abkühlen des Gerätes, bevor Sie es berühren. Lassen Sie keine Flüssigkeiten oder Fremdkörper in die Geräte eindringen. Um Überschläge zu vermeiden, schließen Sie das Gerät nicht an oder trennen Sie es nicht ohne vorher die Eingangsspannung abgeschaltet zu haben, und warten Sie die Entladung der internen Kondensatoren ab (mindestens 2 Minuten).</p>	<p>RISCHIO USTIONI, ESPLOSIONE, INCENDIO, SCOSSA, LESIONI GRAVI. Non effettuare mai operazioni sulle parti sotto tensione! Pericolo di lesioni letali! Il contenitore può scottare, lasciar quindi raffreddare il dispositivo prima di toccarlo. Non far entrare liquidi o oggetti estranei nel dispositivo. Per evitare scintille, non collegare o scollegare l'apparecchiatura prima di avere tolto tensione di ingresso e prima che sia avvenuta la scarica dei condensatori interni (min. 2 minuti).</p>	<p>RISQUE DE BRULURES, EXPLOSION, INCENDIE, ELECTROCUTION, DOMMAGE AUX PERSONNES. Je n'ai jamais effectuer des opérations sur les parties sous tension! Danger de mort! Le boîtier peut produire des brûlures, le laisser refroidir avant de toucher l'appareil. Ne faire pas pénétrer des liquides ou des corps étrangers dans l'appareil. Pour éviter des étincelles, ne pas connecter ou déconnecter l'équipement jusqu'à ce que la tension d'entrée a été supprimée et avant qu'il n'ait eut lieu la décharge des condensateurs internes (minimum 2 minutes).</p>
INTENDED USE	BESTIMMUNGSGEMÄSSER BETRIEB	USO PREVISTO	UTILISATION
<p>These are component type devices for internal installation within system equipment. They are isolated from hazardous voltages and with outputs under 60 Vdc or connected to protective earth. The devices can be used for general applications such as ITE network/servers, industrial and medical. Do not use these devices in applications where malfunction may cause injury or death. Please see full spec of unit for further details.</p>	<p>Dies sind Komponenten für die interne Installation in Systemgeräten. Sie sind gegen gefährliche Spannungen isoliert und haben Ausgänge unter 60 VDC oder sind mit Schutzerde verbunden. Die Geräte können für allgemeine Anwendungen wie ITE-Netzwerke / Server, Industrie und Medizin verwendet werden. Verwenden Sie diese Geräte nicht in Anwendungen, bei denen eine Fehlfunktion zu Verletzungen oder zum Tod führen kann. Weitere Informationen finden Sie in der vollständigen Spezifikation des Geräts.</p>	<p>I dispositivi sono di tipo componente per l'installazione all'interno dell'apparecchiatura. Sono isolati da una tensione pericolosa e hanno tensione in uscita sotto 60Vdc o sono collegati a terra protettiva. I dispositivi son per l'utilizzo generale per applicazioni come rete ITE/ server, industriali e medici. Non utilizzare in applicazioni in cui un eventuale guasto può comportare rischio di lesioni o di morte. vedere le specifiche complete del dispositivo per ulteriori dettagli</p>	<p>Ce sont des types de composant pour une installation interne d'équipement de système. Ils sont isolés des tensions dangereuses et avec des sorties inférieures à 60 Vdc ou connectés au terre de protection. Les appareils peuvent être utilisés pour des applications générales telles que les réseaux / serveurs ITE, industriels et médicaux. Ne pas utiliser ces dispositifs dans une application où un dysfonctionnement pourrait entraîner le risque des blessures ou de mort. Pour de plus amples informations, se référer à la fiche technique du produit</p>
ENVIRONMENTAL CHARACTERISTICS	UMGEBUNGSBEDINGUNGEN	CARATTERISTICHE AMBIENTALI	CARACTERISTIQUES ENVIRONNEMENTALES
<p>Installation in a Pollution Degree 2 environment. Do not use in wet area or subject to moisture. Carefully recycle the product and related batteries according to local regulations.</p>	<p>Installation in einer Umgebung mit Verschmutzungsgrad 2. Nicht in nassen Bereichen oder unter Feuchtigkeit verwenden. Das Gerät und die zugehörigen Batterien sind entsprechend den lokalen Vorschriften zu recyceln bzw. zu entsorgen.</p>	<p>Usare in ambienti con Grado di Inquinamento 2. Non far funzionare l'apparecchio in un ambiente umido o soggetto a formazione di condensa. Riciclare il prodotto e le batterie collegate, nel rispetto delle normative locali vigenti.</p>	<p>Utiliser les produits dans des environnements avec degré de pollution 2. Ne pas employer l'appareil dans un environnement humide ou soumis à la condensation. Recycler les produits et les batteries, conformément à la réglementation locale.</p>

AC INPUT

100 – 277 V ~, 17 – 12.5 A, 50/60 Hz
240 – 380 V, 13 – 9 A

(Input selection is automatic; no manual change is required.)

OUTPUTS

V1 (12.3 V): see below table
Vsb (12.0 V):

MODEL	INPUT VOLTAGE	AMBIENT TEMPERATURE: 50°C	
		AMBIENT TEMPERATURE: 60°C	
TET3000-12-069RA	100-200 VAC	81.3-244 A	65 -195.2 A
	200-277 VAC, 240-380 VDC	244 A	195.2 A
AMBIENT TEMPERATURE: 45°C			
TET3200-12-069RA	100-200 VAC	92-260 A	75-211 A
	200-277 VAC, 240-380 VDC	260 A	211 A

CAUTION

These component level power supplies are intended exclusively for installation within other equipment by an industrial assembly operation or by professional installers. This is a Class 1 power supply; the unit must be properly connected to earth ground in end use. A component power supply should be installed in end-use equipment according to the requirements of the safety standard used for that equipment. This power supply is not designed to be operated outside of an enclosure which provides a means of mechanical, electrical, and fire protection. To maintain ES1 requirements, the outputs should not be connected together in any manner which causes the total output voltage to exceed 60 VDC.

PROTECTIVE EARTHING

The Power Supply must be properly grounded to mains protective earthing termination at end use.

WARNING

This is a class A product. In a domestic environment this product may cause radio interference, in which case the user may be required to take adequate measures.
声明 - 此为 A 级产品，在生活环境中，该产品可能会造成无线电干扰。在这种情况下，可能需要用户对其干扰采取切实可行的措施。

ENVIRONMENTAL CONDITIONS

TRANSPORTATION & STORAGE: Ambient Temperature Range: -40 °C to +70 °C
Relative Humidity Range: 5% to 95% RH Non-Condensing
Altitude: 0 to 13000 meters ASL

OPERATION Ambient Temperature Range: -40°C to +60°C (See output table for details)
Relative Humidity Range: 7% to 93% RH Non-Condensing
Altitude: 0 to 2000 meters ASL at 0 °C to +50°C (TET3000-12-069RA)
0 to 2000 meters ASL at 0 °C to +45°C (TET3200-12-069RA)
0 to 5000 meters ASL at 0 °C to +40 °C

SAFETY APPROVALS

Approved to the latest version of the following safety standards: UL/CSA 62368-1, IEC/EN 62368-1 and IEC/EN 60950-1.

FUSING**CAUTION: DOUBLE POLE/NEUTRAL FUSING.**

Fuses F300 and F301 are rated 25 A, 500 V/500 V (fast acting).
Equipment is rated higher than 16 A. Type of connection to Mains must be determine in the end use equipment.

SERVICING

In case of failure, the Power Supply must be returned to a Bel Power Solutions Authorized Service Center. There are no user serviceable parts in the Power Supply.

LIMITED WARRANTY

Bel Power Solutions warrants each power supply of its manufacture for a period of two years from the date of original shipment. This warranty applies to defects in materials and workmanship that result in non-performance to published specifications. The product(s) must be returned to a Bel Power Solutions Authorized Service Center for repair with a Bel Power Solutions preassigned RMA number.
Bel Power Solutions assumes no liabilities for consequential damages of any kind through the use or misuse of its products by any user. No other obligations are expressed or implied.
Please note that the specifications, terms, and conditions stated are subject to change without notice.

NUCLEAR AND MEDICAL APPLICATIONS

Bel Power Solutions products are not designed, intended for use in, or authorized for use as critical components in life support systems, equipment used in hazardous environments, or nuclear control systems without the express written consent of the respective divisional president of Bel Power Solutions.

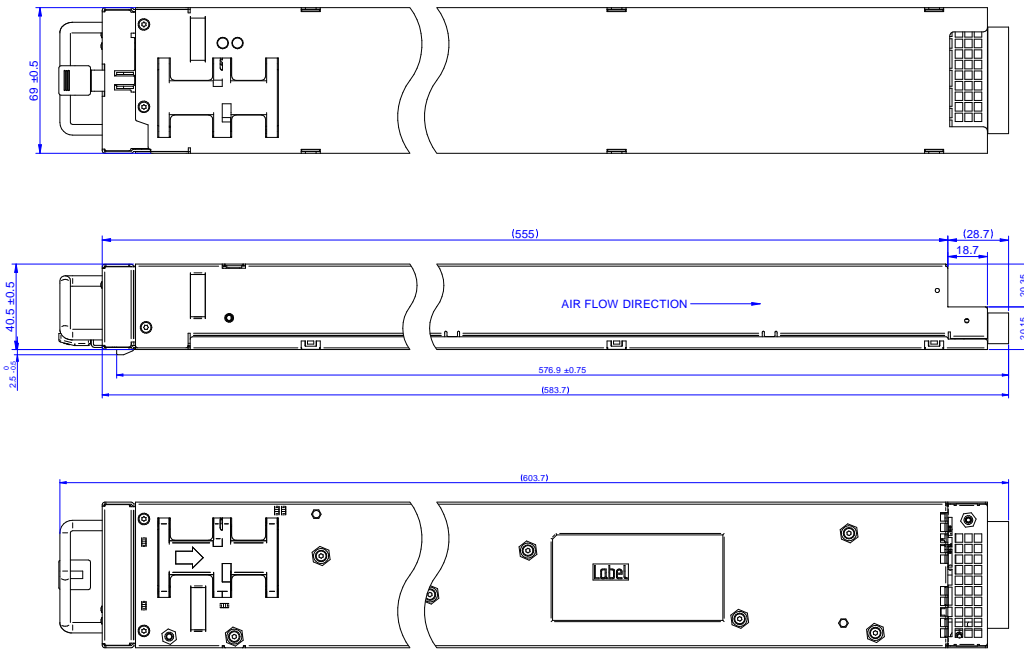
TECHNICAL REVISIONS

The appearance of products, including safety agency certifications pictured on labels, may change depending on the date manufactured. Specifications are subject to change without notice.

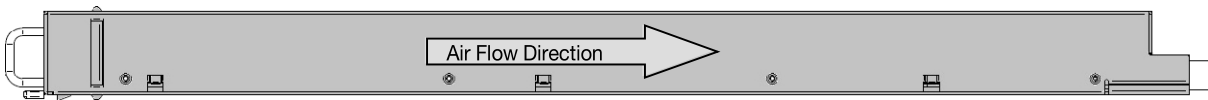
MECHANICAL SPECIFICATIONS

Overall Size: 555 x 69 x 40.5 mm (21.85 x 2.72 x 1.60 in)

Weight: 2.4 kg

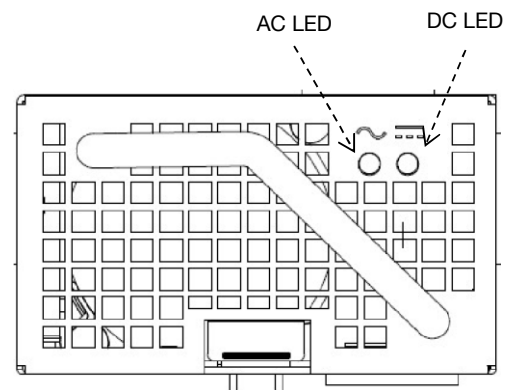


AIRFLOW DIRECTION



LED INDICATORS

OPERATING CONDITION	LED SIGNALING
AC LED	
AC Line within range	Solid Green
AC Line UV condition	Off
LED	
Normal Operation	Solid Green
PSO_N_L High	Blinking Yellow (1:1)
V ₁ or V _{SB} out of regulation	Solid Yellow
Over temperature shutdown	
Output over voltage shutdown (V ₁ or V _{SB})	
Output under voltage shutdown (V ₁ or V _{SB})	
Output over current shutdown (V ₁ or V _{SB})	Blinking Yellow/Green (2:1)
Over temperature warning	
Minor fan regulation error (>5%, <15%)	
	Blinking Yellow/Green (1:1)



PIN ALLOCATION

Unit: FCI Connectors P/N 51939-768LF Note: A1 and A2 are Trailing Pin (short pins)
 Counterpart: FCI Connectors P/N 51915-401LF
 For Main Output Pins, see section 15 of Datasheet BCD.00833

PIN	NAME	DESCRIPTION
Output		
3,4	V1	+12 VDC main output
1,2	PGND	+12 VDC main output ground
Input Pins		
P1	LIVE	AC Live Pin / Positive
P2	N.C.	No metal pin connection
P3	NEUTRAL	AC Neutral Pin / Negative
P4	N.C.	No metal pin connection
P5	P.E.	Protective Earth Pin
Control Pins		
A1	PSKILL	Power supply kill (trailing pin): active-low
B1	PWOK_L	Power OK signal output: active-low
C1	INOK_L	Input OK signal: active-low
D1	PSON_L	Power supply on input: active-low
A2	PRESENT_L	Power supply present (trailing pin): active-low
B2	SGND	Signal ground ¹⁾ (return)
C2	SGND	Signal ground ¹⁾ (return)
D2	SGND	Signal ground ¹⁾ (return)
A3	SCL	I2C clock signal line
B3	SDA	I2C data signal line
C3	SMB_ALERT_L	SMB Alert signal output: active-high
D3	ISHARE	V1 Current share bus
A4	EEPROM_WP	EEPROM write protect
B4	RESERVED	Reserved
C4	V1_SENSE_R	Main output negative sense
D4	V1_SENSE	Main output positive sense
A5	VSB	Standby positive output
B5	VSB	Standby positive output
C5	VSB_GND	Standby Ground ¹⁾
D5	VSB_GND	Standby Ground ¹⁾

¹⁾ These pins should be connected to PGND on the system.

