



Power supply PS75 with integrated splitbox

functional description

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Caution! Operate the device only after having read and **understood** operating instructions!

Power supply PS75

Power supplies with integrated DMX-splitbox for Licht-Technik color changer, dimmer shutter and motorized yokes.

The **PS75** can have a maximum load of one motoryoke with stargate (four leaf barndoor with rotation), focus, mechanical dimmer shutter and color changer unit.

The **mains input** can be 85V – 132V AC **or** 187V – 264V AC. Because of the safe electrical separation from the mains and the low operating voltage of 28V the system is very safe for the users.

Please make sure, that the input voltage is not **switching** or **rising** (e.g. 110V to 230V) when the device is powered. When using a generator, make sure that the device is switched off until power is **stable**.

The power supply is a **switching** regulator which guarantees a high reliability at a low heat. It is short circuit protected and overload proof.

The built in **DMX-Splitbox** has a DMX input which is automatically terminated and opto isolated.

Further splitboxes can be connected to the 5pin output. Even in power off state the DMXOUT output supplies DMX signal. The DATAPOWER output supplies only a DMX signal when the device is in power on state.

Also useful as DMX-Repeater and signal refreshing.

The housing is made of 2mm **powder coated** aluminium.

The passive cooling without a fan is absolutely noiseless.

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Safety and operating instructions

Before opening the housing disconnect the device from the mains !!!

Caution! Change the fuse only in disconnected condition. If the fuse will blow again, the device has to be repaired at Licht-Technik

Caution! Replace a defect fuse only with a fuse of the right value

Don't try in any case to touch the electronic, also with any objects. This can cause an electrical accident that can lead to death!

Use the power supply only in **horizontal** position

Admissible **ambient temperature**: 0..+40 degree Celsius.

The power supply is not for use in outside area. Only applicable indoor in clean and dry environment.

The Power supply must be kept dry. In case of water condensation a waiting period of 2 hours is necessary until the state of being acclimatised is reached.

The device must not be mounted at the **hand grip** into a Rigg or similar systems. For this purpose a holding yoke is available.

Observe mains supply voltage: 85..132V AC (America, Japan) **OR** 187..264V AC 50/60Hz.

Please make sure, that the input voltage is not **switching** or **rising** (e.g. 110V to 230V) when the device is powered. When using a generator, make sure that the device is switched off until power is **stable**.

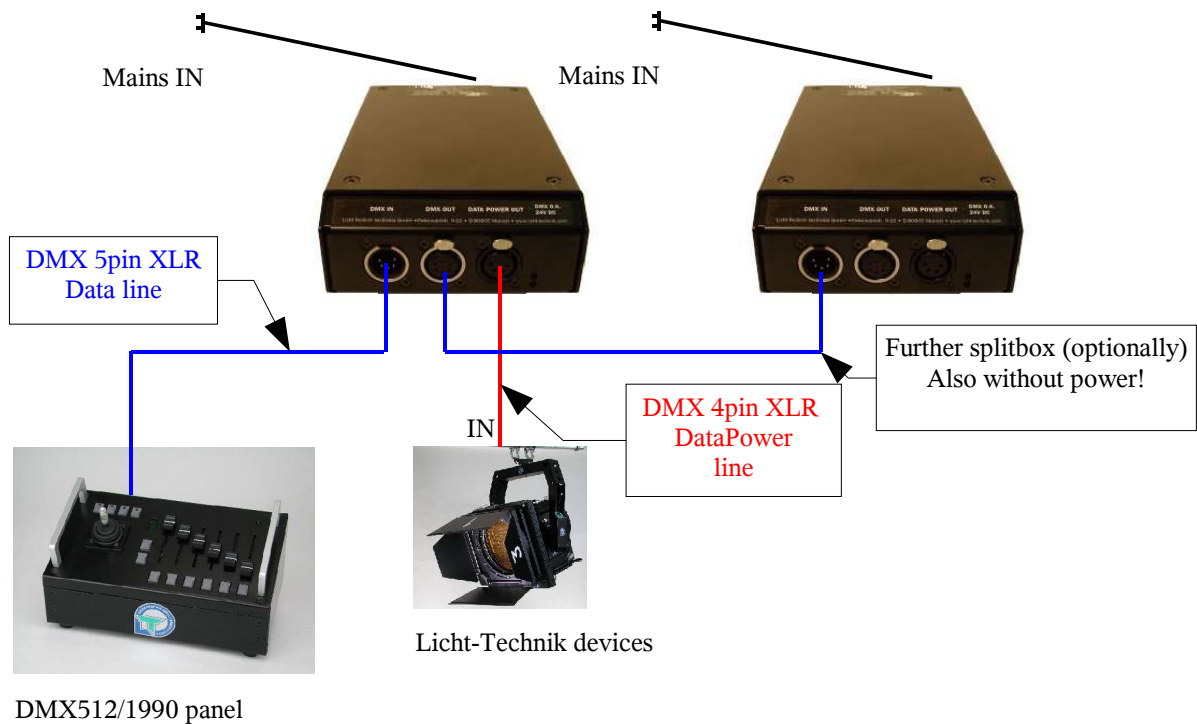
When it has to be assumed that a safe operation is no longer possible, the equipment must be switched off immediately and be secured against unintended operation.

This is the case when

- the equipment shows visible damages;
- the equipment is no longer functional;
- parts of the equipment are loose or slackened;
- connecting lines show visible damages.

Prior to starting the equipment the user must check the usefulness of the device for its intended purpose. In particular, Licht-Technik shall decline any liability for damages of the equipment as well as for consequential damages resulting of the device being used inappropriately, of inexperienced installation, incorrect starting and use, and of non-compliance with the valid safety regulations.

Cabling



The standardized DMX-Signal is based on industrie's RS485 Interface. It is designed for maximum lengths up to 1200m. This length is under condition in theatre or studio normally not possible. As a result of internal tests we recommend a maximum length of 200m (**only DMX, 5PIN**). A maximum of 32 DMX receiver can be connected to one DMX transmitter. If more devices should be connected a splitbox must be used.

Connect the light mixer panel and the Splitbox PS104/PS204 with a 5PIN XLR-DMX-cable. The splitbox is provided with two DMX out jacks for connecting additional splitboxes. At the DATAPOWER output the devices can be connected. Observe the maximum load!

Getting started

Caution! Check the mains voltage: 85..132V AC **or** 187..264V AC !

- Main switch to off
- If a generator is in use, bring it up first
- Put power in cable into plug
- Connect the DMX (5pin) cable to DMX in
- Connect further DMX receiver or further splitboxes to DMX out (5pin)
- At the 4pin outputs devices like color changer, shutter or motoryoke are connected
- Switch on the power supply at the main switch

Technical data

Dimensions and Weight:

PS75-04: (LxWxD): 240mm x 140mm x 70mm 1,6 kg

Mains voltage:	85..132 V AC or 187..264 V AC
Admissible ambient temperature:	0..40 degree Celsius
Maximum output power:	7,5A, 180VA
Output voltage:	28 V DC
Fuse(s):	85V-132V: 3A slow blow 187V-264V: 2A slow blow

Pin assignment:

DataPower: 4pin XLR, gold contacts
PIN 1 0 V min. cross section 0,75mm²
PIN 2 Data – min. cross section 0,25mm²
PIN 3 Data + min. cross section 0,25mm²
PIN 4 +24 V DC min. cross section 0,75mm²
Housing: shield

DMX-IN/ OUT: 5pin. XLR, gold contacts
PIN 1 Shield min. cross section 0,25mm²
PIN 2 Data – min. cross section 0,25mm²
PIN 3 Data + min. cross section 0,25mm²
PIN 4 not connected min. cross section 0,25mm²
PIN 5 not connected min. cross section 0,25mm²

DataPower cable:

2 x 0,75mm² power supply (Pin 1 and 4)

2 x 0,25mm² twisted pair, 110 Ohm characteristic impedance (Pin 2 and 3), shielded.
Shielded

Malfunctions

Caution! Before opening the housing disconnect the device from electrical mains

Caution! Change the fuse only in disconnected condition. If the fuse will blow again, the device has to be repaired at Licht-Technik

Caution! Replace a defect fuse only with a fuse of the right value

In the inside of the device are no parts which can be repaired by the user!!

The built in power supply is short circuit protected, overload proof and very reliable in operation. In case of a defect no changable parts can be reached.

When the power is on and the DMX signal is connected the DMX LED must light. Otherwise the splitbox board is defect. This happens in case of short circuits from 28 V to data+ or data-.

Error	Possible reaseons
DMX ok does not light	No DMX-signal on the input PS50-04 switched off DMX-panel switched off
DMX ok lights, but no signal at Output	Splitbox electronic defect because of short circuits in cable.
No voltage at outputs	Mains voltage ok?

Warranty

The warranty for our products is 2 years. It comprises any repair of failures – free of charge – which can be proved to result from defects of fabrication.

Warranty expires when:

- the device was modified or attempted to be repaired
- damages were caused by the intervention of foreign persons
- damages are due to noncompliance with the operating instructions
- the device was connected to an incorrect voltage or incorrect type of current
- the device was incorrectly operated or when damages were caused by negligent handling or misuse

All maintenance and servicing works related to the product must be carried out by the company *Licht-Technik*. *Licht-Technik* shall not assume any liability for losses or damages of any kind being the results of inexpert servicing.

Further information

This document and the information contained therein are subject to copyright and neither the whole nor any part of it may, and this is also valid for the described product, be reproduced, copied or recorded in any form without the prior written authorization of *Licht-Technik Vertriebs GmbH*.

The products of *Licht-Technik GmbH* are subject to constant development. Therefore *Licht-Technik* reserves the right to modify components, motors and also technical specifications any time and without prior notice.

EC Declaration of Conformity

1. **Type of device/product** Power supply
2. **Name and address of manufacturer** Licht-Technik Vertriebs GmbH
Kapellenstraße 8
85622 Feldkirchen
3. **The manufacturer is responsible for this declaration**
4. **Item of declaration** PS-75
5. **The described item is conform to the following guidelines/regulations**

RICHTLINIE 2014/30/EU DES EUROPÄISCHEN PARLAMENTS UND DES RATES vom 26. Februar 2014 zur Harmonisierung der Rechtsvorschriften der Mitgliedstaaten über die elektromagnetische Verträglichkeit

RICHTLINIE 2014/35/EU DES EUROPÄISCHEN PARLAMENTS UND DES RATES vom 26. Februar 2014 zur Harmonisierung der Rechtsvorschriften der Mitgliedstaaten über die Bereitstellung elektrischer Betriebsmittel zur Verwendung innerhalb bestimmter Spannungsgrenzen auf dem Markt

RICHTLINIE 2011/65/EU DES EUROPÄISCHEN PARLAMENTS UND DES RATES vom 8. Juni 2011 zur Beschränkung der Verwendung bestimmter gefährlicher Stoffe in Elektro- und Elektronikgeräten
6. **Applied and conform to harmonized standards in particular**

DIN EN 55015; VDE 0875-15-1:2016-04 - Grenzwerte und Messverfahren für Funkstörungen von elektrischen Beleuchtungseinrichtungen und ähnlichen Elektrogeräten (CISPR 15:2013 + IS1:2013 + IS2:2013 + A1:2015); Deutsche Fassung EN 55015:2013 + A1:2015

DIN EN 61547; VDE 0875-15-2:2010-03 Einrichtungen für allgemeine Beleuchtungszwecke – EMV-Störfestigkeitsanforderungen (IEC 61547:2009); Deutsche Fassung EN 61547:2009

DIN EN 60598-1; VDE 0711-1:2015-10 – Leuchten – Teil 1: Allgemeine Anforderungen und Prüfungen (IEC 60598-1:2014, modifiziert); Deutsche Fassung EN 60598-1:2015
7. **Not applicable**
8. **This declaration is invalid if the device is changed technically and/or unintended use.**

Signed for

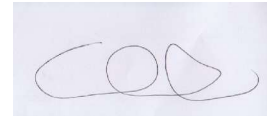
Licht-Technik Vertriebs GmbH

Place and date of description

München 6.9.2017



Uwe Hagenbach (Geschäftsführer)



Bernhard Grill (Geschäftsführer)