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Licht-Technik Vertriebs GmbH  
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## Power supply PS104, PS154, PS204 and PS254 (Suggestion for tendering text)

Power supply for Licht-Technik devices with integrated splitbox (DMX-splitter)



Example PS204

The power supply must be designed to supply Licht-Technik devices with power and DMX. The power supply must realize the following functions and specifications:

Mains input	PS104/PS204	AC 93-132VAC 187-264VAC 50/60Hz
	PS154/PS254	AC 85-132VAC 187-264VAC 50/60Hz
Max ambient temperature		0..40 °
Voltage output		28V DC
Maximum output current		PS104: 10A PS154: 15A PS204: 20A PS254: 25A
Maximum output power		PS104: 240W PS154: 360W PS204: 480W PS254: 600W
Primary fuse	PS104, mains input 93 – 132VAC	6,3A slow blow
	PS104, mains input 187 – 264VAC	3,15A slow blow
	PS154, mains input 85 – 132VAC	6,3A slow blow
	PS154, mains input 187 – 264VAC	6,3A slow blow
	PS204, mains input 93 – 132VAC	8A slow blow
	PS204, mains input 187 – 264VAC	4A slow blow
	PS254, mains input 85 – 132VAC	10A slow blow
	PS254, mains input 187 – 264VAC	6,3A slow blow
Secondary fuse		Electronic power limiter
Protection class		IP20
Color		black powder coated
Weight		PS104/PS154: 3,8kg PS204/PS254: 6,5kg
Dimensions		PS104/PS154: 27 x 20 x 16 cm PS204/PS254: 37 x 20 x 16 cm

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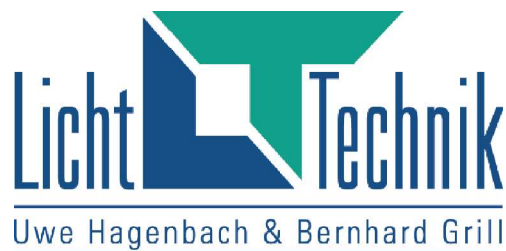
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Housings must be made of high density aluminium.

The surface of the power supply should be powder coated, heat resistant, scratch resistant, not light reflectable. Preferable colour is black.

Rigg-mounting must be supported.

The power supplies must be CE-certified.

High quality switchmode power supply for a maximum security and lifetime must be supported. It must be UL/cUL 1950, UL 508 and CE certified.

An automatic input voltage detection must be implemented:

PS 104/PS204: 93-132VAC or 187-264VAC; 50/60Hz.

PS 154/PS254: 85-132VAC or 187-264VAC; 50/60Hz.

The built in power supply must be sustained short circuit proof and overload proofed.

Output voltage must be 28V DC, 10, 15, 20 or 25 A.

The DMX inputs and outputs must be optoisolated.

An integrated DMX-splitter and booster must be supported, conforming to USITT-standard DMX-512-1990.

A temperature controlled fan must be supported to avoid noise during production.

An Ethernet interface must be optionally available to transmit status information of connected devices and the powersupply via the Licht-Technik "Netspider" protocol.

In power-off state one 5pin DMX-out must send anyway the incoming DMX-signal to provide other power supplies.

Manufacturer: Licht-Technik or equal

Type: PS104, PS154, PS204 or PS254

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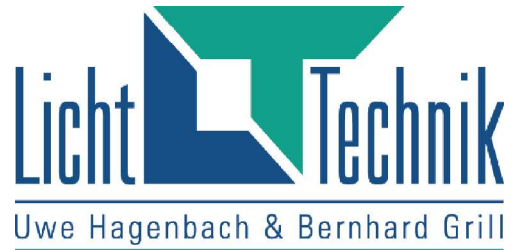
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## Pin assignment:

**OUT1..4:** 4pin XLR, gold contacts  
PIN 1 0 V min. cross section 0,75mm<sup>2</sup>  
PIN 2 Data – min. cross section 0,25mm<sup>2</sup>  
PIN 3 Data + min. cross section 0,25mm<sup>2</sup>  
PIN 4 +24 V DC min. cross section 0,75mm<sup>2</sup>  
Housing: shield

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

## DataPower cable:

2 x 0,75mm<sup>2</sup> power supply (Pin 1 and 4)

2 x 0,25mm<sup>2</sup> twisted pair, 110 Ohm characteristic impedance (Pin 2 and 3), shielded.  
Shielded.

## Power supply must support the following number of Licht-Technik devices:

Type	Max Current	Max PS104 (10A)		Max PS154 (15 A)		Max PS204 (20 A)		Max PS254 (25 A)	
		total	per output	total	per output	total	per output	total	per output
Color changer	1,2 A	8	4	12	4	16	4	20	5
Dimmer shutter	1,2 A	8	4	12	4	16	4	20	5
MagVader	2,5 A	4	2	6	2	8	4	10	3
Motoryoke	4,0 A	2	1	3	1	4	2	5	1

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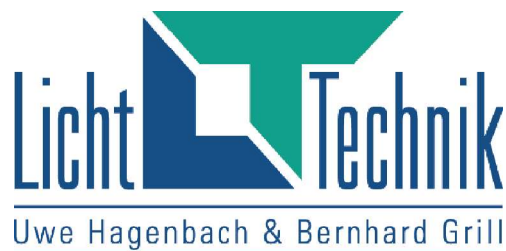
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## Declaration of conformity

**Manufacturer:** Licht-Technik Vertriebs GmbH  
**Address:** Osterwaldstraße 9-10  
80805 München

declares that the product:

**Name of product:** Power Supply / splitbox  
**Type of product:** PS104/PS154/PS204/PS254

corresponds to the following specifications under strict observance of the installation instructions and technical specifications:

**Standard 2004/108/EG of the European Parliament and the council from  
15. December 2004  
for law provision adaptation of the member states concerning the electrical  
compatibility and for  
abrogation of standard 89/336/EEG.**

The device passed the test. A testreport is available at company Licht-Technik Vertriebs GmbH.

Munich, 19.9.2005

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Uwe Hagenbach / Bernhard Grill  
Managing directors