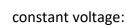
D Lunatone





LED Power Supply with DALI control input (DT6)



Art.Nr. 89453849-24V (CV, 24V, 25W) (replaces: 89453849, 89453849-SD)

constant current:

Art.Nr. 89453849-250 (CC, 250mA) Art.Nr. 89453849-350 (CC, 350mA) Art.Nr 89453849-500 (CC, 500mA) Art.Nr. 89453849-700 (CC, 700mA) Art.Nr. 89453849-1050 (CC, 1050mA)



DALI LED Power Supply Control Gear

Overview

- 1 channel LED Power Supply
- types for constant voltage (24V) and constant current (250mA, 350mA, 500mA, 700mA, 1050mA) available
- control via DALI-address (DT6)
- SwitchDim2: level control via switching inputs without DALI
- dimming range from 0.1%-100%
- pwm-frequency adjustable (122Hz/244Hz/488Hz/976Hz)
- suitable for integration in luminaires and remote ceiling

- supply voltage 230V AC
- CV-type: output 24V PWM, 1A max.
- CC-type: output with 250mA, 350mA, 500mA, 700mA or 1050mA
- low standby power consumption
- high efficiency
- configuration with DALI-Cockpit softwaretool and DALI USB interface
- overtemperature shutdown, integrated short circuit protection
- user-friendly factory default settings

Specification, Characteristics

Constant Voltage (CV):

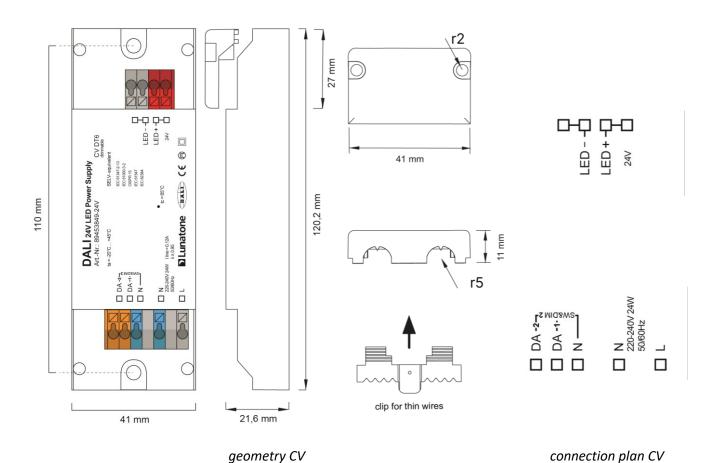
type	DALI 24V LED Power Supply CV DT6		
article number	89453849-24V		
electrical data:			
supply	220-240V AC / 50-60Hz, lin=0.12A, power factor > 0.95, inrush current < 0.2A		
control input	DALI or SwitchDim2		
current consumption DALI	2mA		
number of DALI addresses	1		
output	24V ± 0.5V PWM		
galvanic isolation	SELV		
max. output current	1A		



type	DALI 24V LED Power Supply		
article number	89453849-24V		
technical data:			
power on behaviour	configurable via DALI: 0%-100% or last value		
ambient temperature	-20°C to +45°C		
expected lifetime (at tc<=65°C)	>50000h		
protection class	IP20		
max. connecting wire cross section	1.5 mm2		
dimensions (LxWxH)	120mmx41mmx22mm		
mounting/housing	remote ceiling / integration in luminaires		

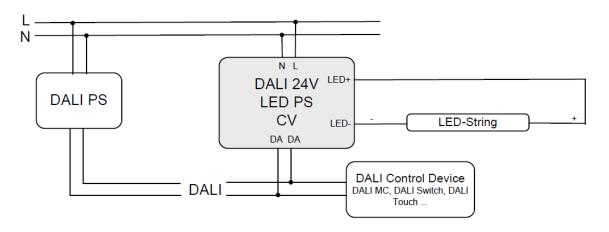


IEC 61347-2-13 IEC 61000-3-2 CISPR 15 IEC 61547 IEC 62384

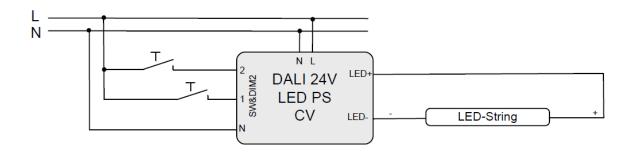


RECOMMENDATION: Care should be taken on keeping cable lengths between dimmer and luminaires (Led-Strings) as short as possible. This kind of installation will minimize the influence of voltage drops.

Lunatone



typical application with DALI control



typical application with SwitchDim



Constant Current (CC):

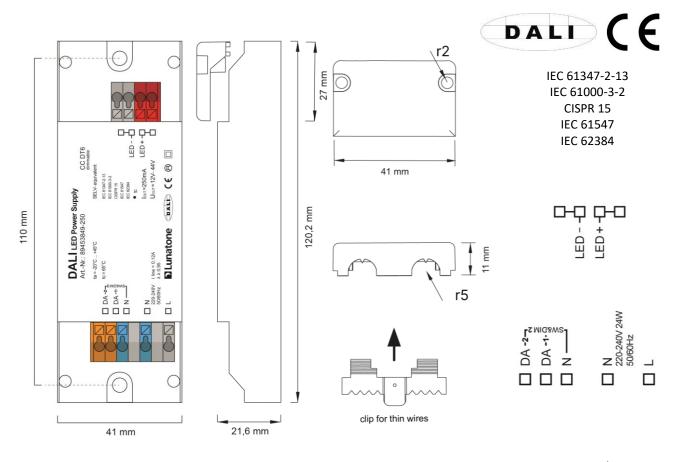
type	DALI LED Power Supply CC DT6				
article number	89453849-	89453849-	89453849-	89453849-	89453849-
	250	350	500	700	1050
					·

electrical data:

supply	220-240V AC / 50-60Hz, lin=0.12A, power factor > 0.95; inrush current < 0.2A				
control input	DALI or SwitchDim2				
current consumption DALI	2mA				
number of DALI addresses	1				
output current	250mA	350mA	500mA	700mA	1050mA
range of output voltage	12V-44V	12V-44V	12V-36V	12V-32V	12V-21V
galvanic isolation	SELV				

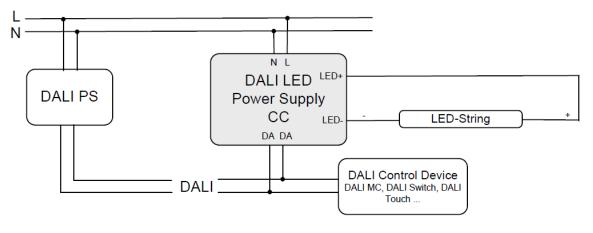
technical data:

tcommour data.	
power on behaviour	configurable via DALI: 0%-100% or last value
ambient temperature	-20°C to +45°C
expected lifetime (at tc<=65°C)	>50000h
protection class	IP20
max. connecting wire cross section	1.5 mm2
dimensions (LxWxH)	120mmx41mmx22mm
mounting/housing	remote ceiling / integration in luminaires

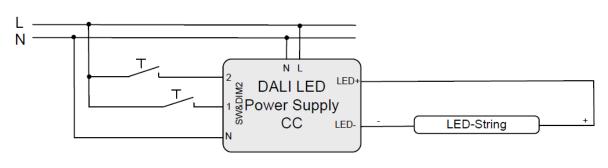


geometry CC

connection plan CC



DALI application



SwitchDim application

DALI / SwitchDim2

The device can be controlled by different methods:

DALI

In this operating mode the light level of the device is controlled via its DALI address (Device Type 6).

SwitchDim2

Alternatively the device can be controlled using 2 switch-inputs for mains voltage (SwitchDim2):

SwD1: light level

short press: On/Off long press: dimming

SwD2: scene selector (short press)

Please note that prior versions provide an additional switch input marked as L'. This input has to be used in addition to the DALI-input and not instead of it.

Factory Default Settings

Before the initial addressing is performed, the device can already be controlled by group address GO. This predefined grouping will be deleted during the first addressing procedure. Afterwards groups can be assigned as usual (e.g. with the help of the DALI Cockpit).

Summary of the factory default settings (delivery state):

SwitchDim2	SwD1: light level
	SwD2: scene selector
Min Level	0.1%



PowerOn Level	MASK (last value)
Fade Time	2 (1s)
Fade Rate	CC: 5 (89.4 steps/s)
	CV: 5 (63.3 steps/s)
PWM-	CC: auto
frequency	CV: 488Hz
Group control	G0
before initial	
addressing	

Purchase Information

Art. Nr. 89453849-24V: DALI 24V LED Power Supply, constant voltage (CV), 24V, 25W, Imax=1A, SwitchDim2, remote ceiling & integration in luminaires

Art. Nr. 89453849-250: DALI 15W LED Power Supply, constant current (CC), 250mA, Uout=12V-44V, SwitchDim2, remote ceiling & integration in luminaires

Art. Nr. 89453849-350: DALI 15W LED Power Supply, constant current (CC), 350mA, Uout=12V-44V, SwitchDim2, remote ceiling & integration in luminaires

Art. Nr. 89453849-500: DALI 20W LED Power Supply, constant current (CC), 500mA, Uout=12V-36V, SwitchDim2, remote ceiling & integration in luminaires

Art. Nr. 89453849-700: DALI 25W LED Power Supply, constant current (CC), 700mA, Uout=12V-32V, SwitchDim2, remote ceiling & integration in luminaires

Art. Nr. 89453849-1050: DALI 15W LED Power Supply, constant current (CC), 1050mA, Uout=12V-21V, SwitchDim2, remote ceiling & integration in luminaires

phase-out type:

Art. Nr. 89453849-SD: DALI 24V LED Power Supply, constant voltage (CV), 24V, 25W, Imax=1A, remote ceiling, extra switch-input

phase-out type:

Art. Nr. 89453849: DALI 24V LED Power Supply, constant voltage (CV), 24V, 25W, Imax=1A, remote ceiling

Additional Information and Equipment

DALI-Cockpit – free configuration tool from Lunatone for DALI systems http://lunatone.at/en/downloads/Lunatone DALI-Cockpit.zip

Lunatone DALI products http://www.lunatone.at/en/

Lunatone datasheets and manuals http://lunatone.at/en/downloads/

Contact

Technical Support: support@lunatone.com

Requests: sales@lunatone.com

www.lunatone.com



Disclaimer

Subject to change. Information provided without guarantee. The datasheet refers to the current delivery.

The compatibility with other devices must be tested in advance to the installation.