JUMiTECH

DALI LED Power Supply

Datasheet

Control Gear

LED Power Supply with DALI control input (DT6)

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 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%
- suitable for integration in luminaires and remote ceiling

- supply voltage 230V AC
- 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
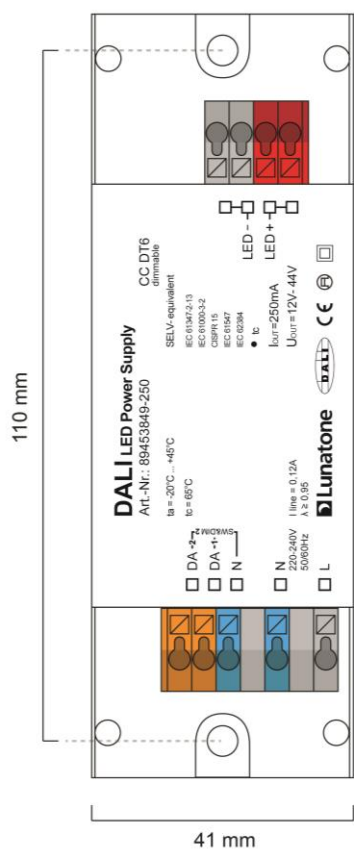- user-friendly factory default settings

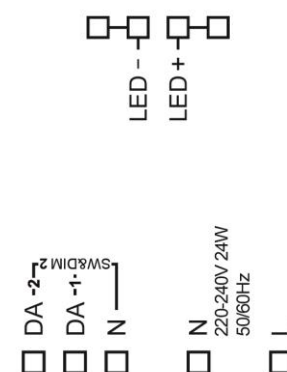## Specification, Characteristics

Constant Current (CC):

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

electrical data:

supply	220-240V AC / 50-60Hz, Iin=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

technical data:

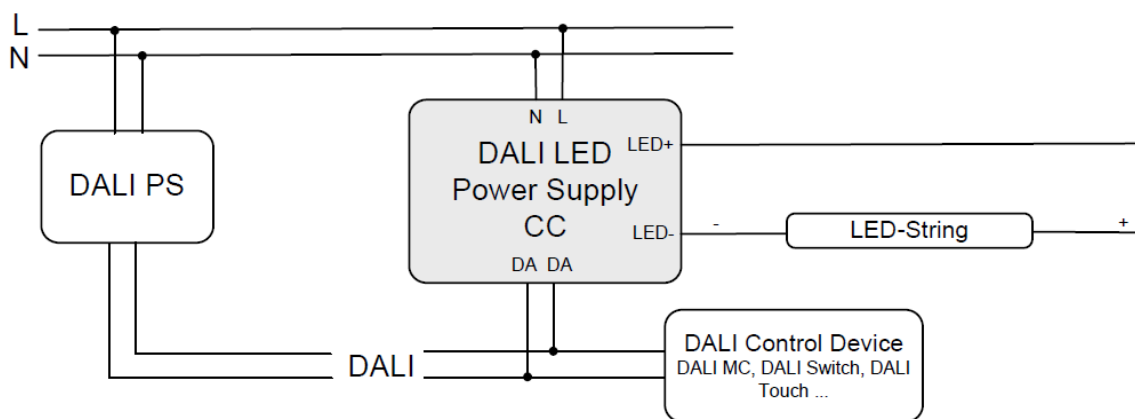|	
power on behaviour	configurable via DALI: 0%-100% or last value
ambient temperature	-20°C to +45°C
expected lifetime (at tc<=65°C)	>50000h
protection class	IP20
max. connecting wire cross section	1.5 mm2
dimensions (LxWxH)	120mmx41mmx22mm

geometry CC

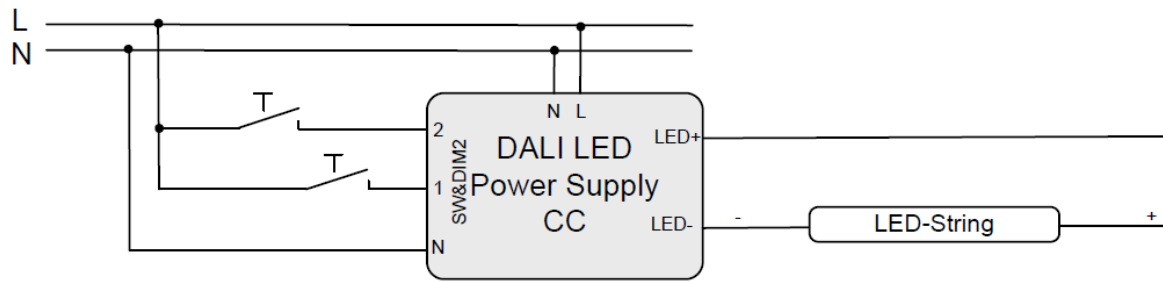connection plan CC

DALI

CE

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

DALI application

2018/02/22

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 G0. 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)
PWM-frequency	CC: auto
Group control before initial addressing	G0

Purchase Information

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

Additional Information

Datasheets and manuals
https://jumitech/produkter

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

Contact

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Requests: salg@jumitech.dk

www.jumitech.dk

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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.

2018/02/22

JUMiTECH

DALI LED Power Supply CW-WW

Datasheet
Control Gear

DALI LED Power Supply (DT8) for independent control of light level and colourtemperature of tunable white luminaires

Constant current:
Art.Nr. 89453849-CWW-350 (15W, 350mA)
Art.Nr. 89453849-CWW-500 (20W, 500mA)
Art.Nr. 89453849-CWW-700 (25W, 700mA)
Art.Nr. 89453849-CWW-800 (25W, 800mA)
Art.Nr. 89453849-CWW-1100 (25W, 1100mA)

DALI LED Power Supply CW-WW Control Gear

Overview

- DALI LED Power Supply for the control of tunable white luminaires

- types for constant current LED-modules 350mA, 500mA, 700mA, 800mA, 1100mA available

- **Operating Mode DT8**: one DALI-address for the independent control of light level and colour temperature (DALI DT8, Colour Type Tc)

- **Operating Mode Balance&Dim:** control by 2 DALI-addresses, one for adjusting the light level and one for adjusting the channel balance (e.g. colour temperature)

- **Operating Mode Dim2Warm:** one DALI-address for simultaneous adjustment of light level and colour temperature

- **SwitchDim2**: 2 switch-inputs offer control of level and colour without DALI

- dimming range 0.1%-100%

- supply voltage 230V AC

- CC-Type: output currents of up to 1100mA

- configuration via PC-software DALI-Cockpit and DALI USB-interface

- overtemperature shutdown, integrated short circuit protection

- user-friendly factory default settings

Specification, Characteristics

constant current (CC):

type	DALI LED Power Supply CW-WW CC				
article number	89453849-CWW-350	89453849-CWW-500	89453849-CWW-700	89453849-CWW-800	89453849-CWW-1100

electrical data:

supply voltage	220-240V AC / 50-60Hz, Iin=0.12A, power factor > 0.95, inrush current < 0.2A				
max. output current I_{led}	350mA	500mA	700mA	800mA	1100mA
output voltage range V_{led}	12V-44V	12V-36V	12V-32V	12V-28V	12V-16V
control input	DALI				
current consumption DALI	2mA				
number of DALI-addresses	operating mode DT8, Dim2Warm: 1 operating mode Balance&Dim: 2				

technical data:

power on behaviour	configurable via DALI: 0%-100% or last value
storage/transportation temp.	-20°C … +75°C
ambient temperature	-20°C … +45°C
expected lifetime (at	>50000h

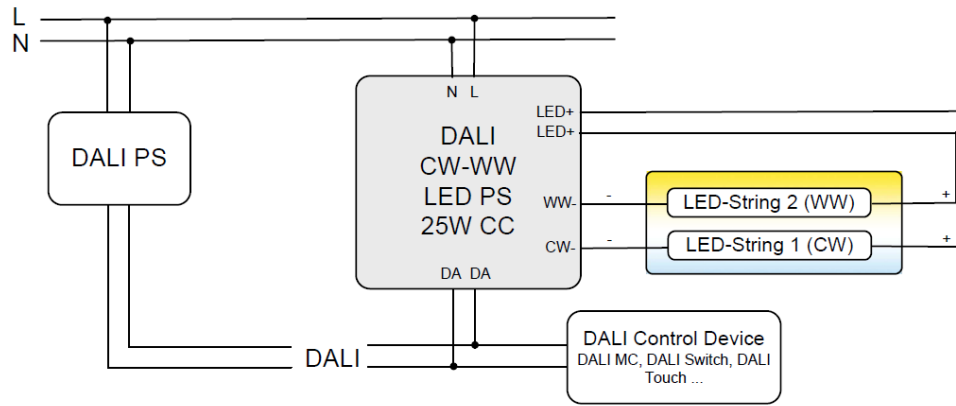| tc<=65°C)	
protection class	IP20
connecting wire cross section	<= 1.5 mm^2
dimensions (LxWxH)	120mmx41mmx22mm
mounting/housing	remote ceiling / integration in luminaires

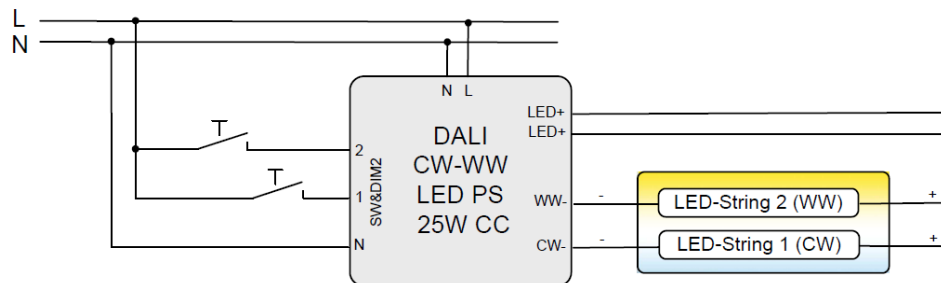on request: output currents from 250mA to 1100mA available

DALI   CE

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

110 mm

DALI 25W LED Power Supply CW-WW
Art.-Nr.: 89453849-CWW-xxx
CC DT8
dimmable
SELV- equivalent
IEC 61347-2-13
IEC 61000-3-2
CISPR 15
IEC 61547
IEC 62384
ta = -20°C ...+45°C
tc=65°C
CE
DALI
Lunatone

WW –
CW –
LED+

DA -2-
DA -1-
N
SW&DIM 2
220-240V 24W
50/60Hz
N
L

41 mm   21,6 mm

120,2 mm

dimensions CC

WW –
CW –
LED+

DA -2-
DA -1-
N
SW&DIM 2

N
220-240V 24W
50/60Hz
L

connection plan CC

DALI:

2018-11-06
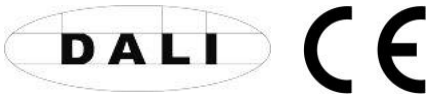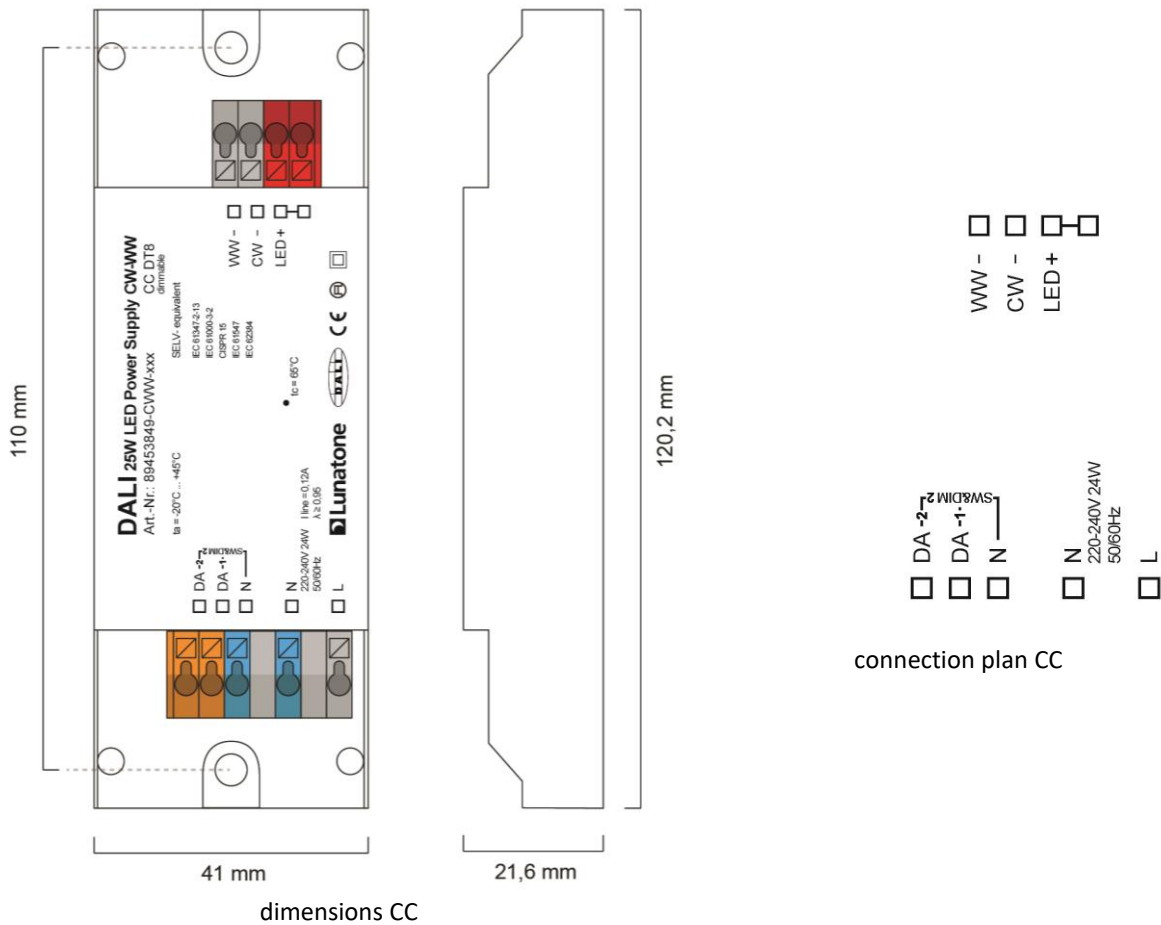
SwitchDim2:

Operating Modes

The device offers several operating modes:

DT8 (factory default)

Default when connected to DALI in this operating mode one DALI-address for the independent control of light level and colour temperature is used (Device Type 8 Mode Tc).

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: colour temperature
      long press: change colour temperature

Balance&Dim

This operating mode is also suitable for operating tunable white luminaires using two DALI-addresses. The first controls the light level and the second is used for changing the distribution on the output channels (e.g. for tunable white applications or balancing direct/indirect lighting).

The Balance&Dim mode allows colour temperature adjustments without affecting the light level and vice versa. For each channel only DALI-standard commands like dim up/down but also DAP are used. Thus the device can be used with all common controls and gateways (e.g. KNX). The Balance&Dim mode provides an alternative to the DT8-Tc mode.

Can be operated via DALI or SwitchDim2:

DALI-address 1, SwD1: light level

DALI-address 2, SwD2: balance
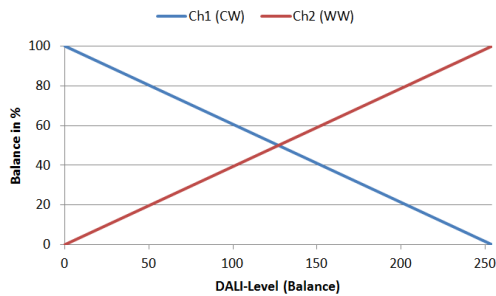
Dim2Warm

Both output channels are controlled by one DALI-address or SwD-input. The balance is coupled directly to the DALI dim level – the smaller the dim level the warmer the light.

DALI-address 1, SwD1: Dim2Warm (Master)
      short press: On/Off
      long press: dimming
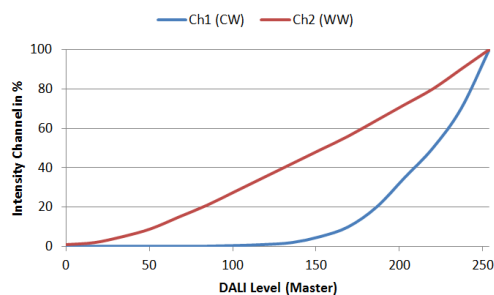
SwD2: scene selector

Selection of operating mode

With the help of the PC-software tool DALI-Cockpit the operating mode can be easily set on the general settings page.

Operating mode DT8-Tc:
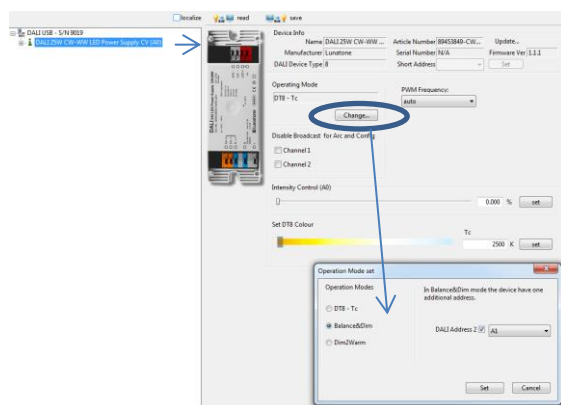
In addition, on the same page the PWM-frequency can be selected and basic control elements for testing each operating modes are available (DT8: slider for level and colour temperature). Furthermore the broadcast control can be deactivated for each channel individually.

Operating Mode Balance&Dim: slider for level and balance
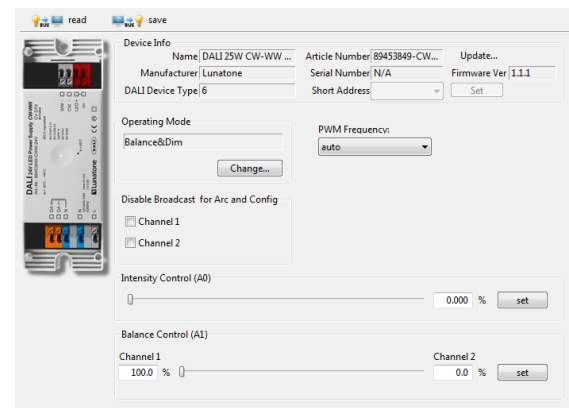
Operating Mode Dim2Warm: slider for input value adaption and Edit-Function for the Dim2Warm-table
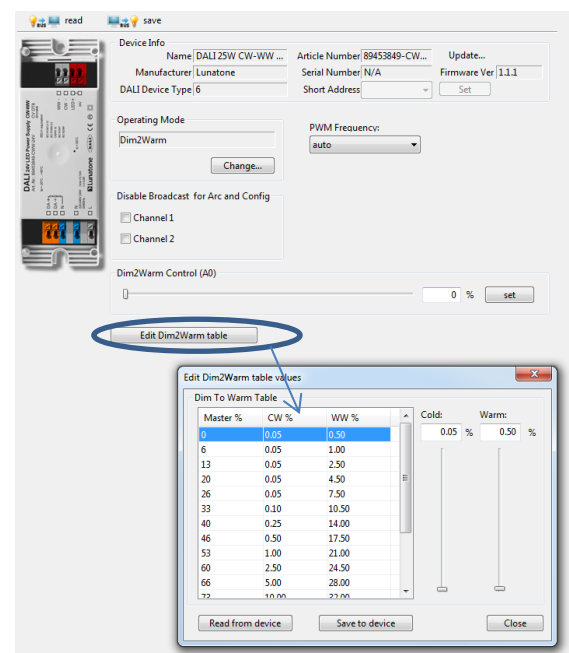
Switching between operating modes can also be done with the help of the DALI-command SET OPERATING MODE (IEC 62386-102 Ed.2).

When changing the operating mode the number of used DALI-addresses can change as well and this requires a new addressing procedure. In the DALI-Cockpit this address assignment is performed automatically.

Operating Mode:

Number	Operating Mode
0x0	DT8 (factory default)
0x92	DT8
0x94	Balance&Dim
0x95	Dim2Warm

Additional Settings

Besides the settings on the general page each channel can be selected separately in the component tree for individual configuration.
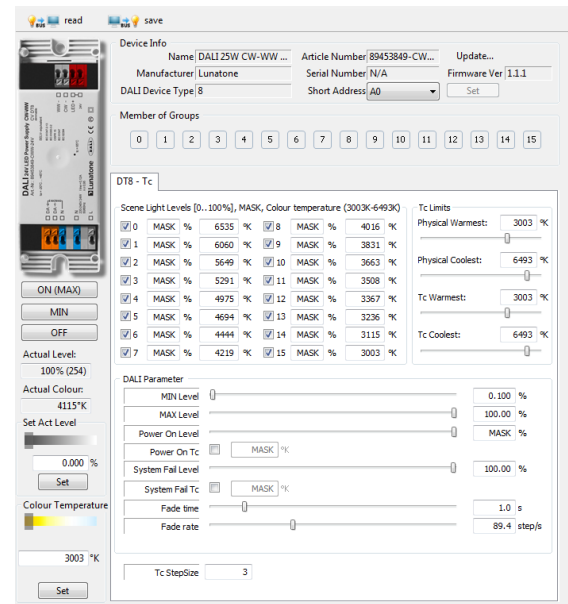
Beside the DT8 Tc standard settings, the Tc stepsize can be increased, this is a simple way to speed up colour temperature changes when using the commands TC STEP COOLER/WARMER.

In all other operating modes (Balance&Dim /Dim2Warm) the following settings are provided.

Component Tree:
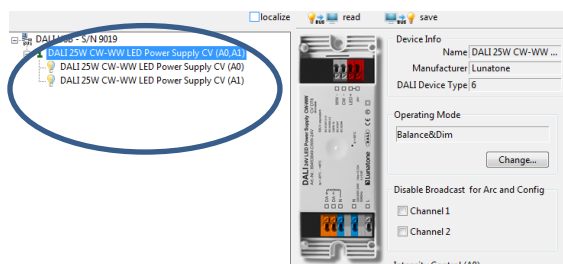
Settings in the operating mode DT8-Tc (displayed parameters are the factory default values):

Operating mode Balance&Dim; Dim2Warm:

2018-11-06
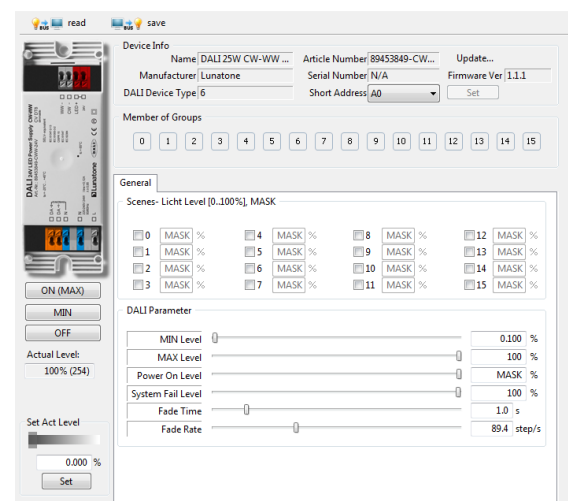
For each address the group membership can be set as well as scene values and DALI-parameters. In Balance&Dim operating mode all values assigned to channel 2 are representing the balance.

Factory Default Settings

Before the initial addressing is performed, the device can already be controlled by a group address. 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):

operating mode	DT8
SwitchDim2	SwD1: level SwD2: colour temperature
Min Level	0.1%
PowerOn Level	MASK (last value)
Fade Time	2 (1s)
Fade Rate	5 (89.4 steps/s)
Tc-Stepsize	3 increments
PWM-frequency	CV: 488Hz fixed CC: auto
Groups before intial addressing:	G0 (or G0 and G1 in operating mode Balance&Dim)
Predefined Scene Values:	

Purchase Order Information

Art. Nr. 89453849-CWW-350: DALI CW-WW LED Power Supply, constant current (CC) 350mA, Ausgangsspannungsbereich 12V-44V, SwitchDim2, remote ceiling

Art. Nr. 89453849-CWW-500: DALI CW-WW LED Power Supply, constant current (CC) 500mA, Ausgangsspannungsbereich 12V-36V, SwitchDim2, remote ceiling

Art. Nr. 89453849-CWW-700: DALI CW-WW LED Power Supply, constant current (CC) 700mA, Ausgangsspannungsbereich 12V-32V, SwitchDim2, remote ceiling

Art. Nr. 89453849-CWW-800: DALI CW-WW LED Power Supply, constant current (CC) 800mA, Ausgangsspannungsbereich 12V-28V, SwitchDim2, remote ceiling

Art. Nr. 89453849-CWW-1100: DALI CW-WW LED Power Supply, constant current (CC) 1100mA, Ausgangsspannungsbereich 12V-16V, SwitchDim2, remote ceiling

Additional Information

Datasheets and manuals
https://jumitech/produkter

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

Contact

Technical Support: support@jumitech.dk

Requests: salg@jumitech.dk

www.jumitech.dk

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