

The SmartLight compact DALI-2 DT6 NFC (Near Field Communication) programmable LED driver delivering adjustable output from 80–700 mA (0.72–30.1 W) for versatile LED loads in a single SKU. Effortlessly program current settings in 1 mA steps via NFC with a smartphone or reader—or via DALI—without physical access or tools. It provides ultra-smooth, flicker-free dimming (0.5–100%) compliant with DALI-2 standards, for advanced control and energy reporting.

With SELV output and robust protections (short/open circuit, overload, over-temperature, 2 kV L/N-PE surge), it ensures reliable performance and up to 100,000-hour lifetime at $t_c \leq 85^\circ\text{C}$. Seamlessly integrates with DALI, TouchDim/Push-Dim, and emergency systems (DC em dim, default 15%), simplifying installation across major platforms.

Ideal for retail shops, malls, supermarkets, and offices, it offers 90% max efficiency, 0.3–0.45 W standby, quiet operation (<25 dB(A)), CLO stability, global certifications, and for sustained, energy-efficient lighting.



Features

- DALI-2 Certified**
Fully DALI-2 certified for seamless interoperability, advanced diagnostics, and energy reporting in modern DALI systems.
- Easy NFC Current Setting**
Adjust output from 80–700 mA in 1 mA steps via NFC (smartphone/reader) or DALI—fast, tool-free customization without wiring changes.
- High Efficiency & Low Standby**
Up to 90% efficiency at full load; 0.3–0.45 W standby power for major energy savings and low running costs in commercial setups.
- Wide Dimming Range**
0.5–100% high-quality dimming with low flicker ($P_{ST_LM} \leq 1$, $SVM \leq 0.4$) and ripple $< \pm 3\%$ for smooth, premium visual comfort.
- Emergency Lighting Ready**
DC emergency support with adjustable em dim (default 15%, EOfx 1–100%) meets safety standards for escape routes and standby lighting.
- Long Lifetime & 5-Year Warranty**
Up to 100,000 hours at $t_c \leq 85^\circ\text{C}$, with 5-year guarantee for durability and low maintenance in high-use environments.
- Compact Build-In Design**
Ultra-compact build-in housing with screwless terminals facilitates easy integration into slim luminaires and space-constrained designs
- Robust SELV Protection**
Auto-recovery safeguards (short/open circuit, overload, over-temp); 3 kV isolation; 2 kV L/N-PE surge immunity for ultimate reliability.
- Wide Input/Output Window**
198–264 Vac / 180–280 Vdc input (0/47–63 Hz); 9–45 V output (0.72–30.1 W)—versatile for global LED loads, low stock needs.
- Sustainable & Quiet Operation**
 $PF > 0.95$, $THD < 11\%$, <25 dB(A) noise.

Product #	Description	Power	Output Voltage Range
SL-94210000-15W-EU	DALI-2 DT6 NFC 15W	15W	9 – 45 V DC
SL-94230000-30W-EU	DALI-2 DT6 NFC 30W	30W	9 – 45 V DC
SL-94240000-45W-EU	DALI-2 DT6 NFC 45W	45W	9 – 45 V DC

Specifications

	Product Model #	SL-94210000-15W-EU	
Main Features	Output Type	Constant Current	
	Dimming Type	DALI-2 / Touch Dim	
	Output Current Setting	NFC / DALI	
	Output Features	Isolation	
Input	Rated Supply Voltage	220 – 240V	Nominal Range
	Input Voltage	198 – 264 V AC	
	Mains Frequency	0/ 50 /60 Hz	Range: 0/47 – 63 Hz
	Vin DC Operation	180 – 280V DC	
	Input Current	$\leq 0.12\text{A}$ Max	
	Input Power	$\leq 26.3\text{W}$ Max	More MCB-types in design-in guide
	Standby Power	0.45W	230V (DALI system DIM to off)
	Efficiency	90%	230V/50 Hz at full load
	Total Harmonic Distortion	$< 11\%$	230V/50 Hz at full load
	Power Factor	0.95	
	Inrush Current (peak / duration)	$\leq 8.9\text{A}/2.3\mu\text{s}$	230V/50 Hz at full load
	Drivers/MCB 16A Type B	≤ 21	
	Isolation Input to Output	Yes	

Specifications

Output	Output Voltage	9 – 45 V DC	Forward Voltage
	Max. Output Voltage	59 V DC	No Load Voltage (u-out)
	Output Current	80 – 700mA	NFC default @ 80mA
	Output Current Min. Dimming	3.5 mA	
	Output Current Tolerance	±5%	Output current is mean value.
	Output LF Current Ripple (< 120 Hz)	±3%	Ripple = (Imax-Imin) / (Imax+Imin)
	Output P _{ST_LM} (at full load)	≤ 1	at full load
	Output SVM (at full load)	≤0.4	at full load
	Starting Time (AC mode)	≤0.5S	230 V/50 Hz at full load
	Starting Time (DC mode)	≤0.4S	
	Switching Over Time (AC/DC)	≤0.4S	
	Output Power	0.72-30.1 W	
Controls Input	Control Method	Corridor Mode, DALI, Push-button	
	DALI Part(s)	101, 102, 207, 251, 252, 253.	EN 62386
	Dimming Range	0.5 – 100 %	
	NFC Current Setting	PC	
	Isolation Controls Input to Output	Basic	
	Short Range Reader	Feig ID CPR30; Feig ID ISC.PRH101; Feig ID ISC.MR102;	Antenna: Feig ID ISC. ANT40/30, Feig ID ISC. ANT100/100
	Long Range Reader	Feig ID ISC.LRM1002	Antenna: Feig ID ISC. ANT310/310
Protection	A-weighted Sound Level	<25dB	at 30cm during dimming
	SELV/Non-SELV	SELV	
	Over Voltage Protection	320AC 48 Hours	
	Short Circuit Protection	Yes	Auto Recovery
	Open Circuit Protection	Yes	Auto Recovery
	Overload Protection	Yes	Auto Recovery
	Over Temp Protection	Yes	
	Hotplug-in/switch at Secondary	No	
	For Fixtures Protect Class	II	Per IEC60598
	Insulation Voltage	3000V, 5mA, 60s	Between P-S
	Insulation Resistance	> 100 M Ohm	At 500 VDC L-N to PE
	Leakage Current	< 700 µA, I/P to O/P	At 230V input

Environment	Ambient Temp (ta)	-20°C to 50°C	Higher ambient allowed if Tcase-max is not exceeded
	Ambient Temp (lifetime max)	40°C	
	Max Casing Temp (tc)	85 °C	
	Storage Temperature (ts)	-20°C to +80°C	
	Max Housing Temp	110°C	In case of a failure
	Relative Humidity	10% to 85%, not condensed, max 56 days/year	
Wiring & Connections	Input Wire Preparation	0.5 – 1.5 mm² / 8-9mm	20 to 16 AWG, WAGO744, solid wire
	Output Wire Preparation	0.5 – 1.5 mm² / 8-9mm	20 to 16 AWG, WAGO744, solid wire
	Control Wire Preparation	0.5 – 1.5 mm² / 8-9mm	
	Maximum Cable Length	2 m	
Standards	Certificates/Compliance	RCM/CE/ENEC/SAA/UKCA/EAC/CB	
	Safety Standards	EN61347-1:2015/ A1:2021; EN61347-2-13:2014/A1:2017; EN62384:2006/A1:2009; AS 61347.2.13:2018; AS/NZS61347.1:2016; BS EN61347-1:2015/ A1:2021; BS EN61347-2-13:2014/A1:2017; IEC 61347-1:2015+A1:2017; IEC 61347-2-13:2014+A1:2016	
	EMC Standards	AS/NZS CISPR 15:2011; AS CISPR 15:2017 ; BS EN IEC 55015:2019+A11:2020; EN 61547:2009; BS EN IEC 61000-3-2:2019; BS EN 61000-3-3:2013+A1:2019	
	Performance	EN 62384	
	DALI Performance	EN 62386-101 (DALI-2) EN 62386-102 (DALI-2) EN 62386-207 (DALI-2)	including part 251, 252, 253
	Mains Surge Capability	1kV	between L – N
	Mains Surge Capability	2kV	between L/N – PE
	Surge Voltage at Output side	<0.5kV	against PE
Miscellaneous	RoHS	2011/65/EU	
	Mounting type	Build-in	
	Dimension (L x W x H)	97 x 43 x 22.8mm	
	Lifetime	up to 100,000 h	
	Warranty	3 Year	