

SC TRACK PS DALI/PUSH

Constant current dimmable LED driver / Alimentatore dimmerabile per LED a corrente costante



Part number	Output Current	Input Current	Input Power	Output Power Range	λ Power Factor	Efficiency @230V	Output Voltage	No Load Voltage
A40SC42D006x x=B (white) x=N (black)	300mA	0.07A	14.68 W	3.00-12.60 W	0.86	85.8%	10-42 V	59 V
	350mA	0.08A	16.99 W	3.50-14.70 W	0.87	86.5%	10-42 V	
	400mA	0.09A	19.31 W	4.00-16.80 W	0.88	87.0%	10-42 V	
	450mA	0.13A	21.60 W	4.50-18.90 W	0.89	87.5%	10-42 V	
	500mA	0.15A	23.91 W	5.00-21.00 W	0.90	87.8%	10-42 V	
	550mA	0.16A	26.25 W	5.50-23.10 W	0.91	88.0%	10-42 V	
	600mA	0.17A	28.63 W	6.00-25.20 W	0.92	88.0%	10-42 V	
	650mA	0.18A	31.02 W	6.50-27.30 W	0.93	88.0%	10-42 V	
	700mA	0.19A	33.41 W	7.00-29.40 W	0.94	88.0%	10-42 V	
	750mA	0.20A	35.79 W	7.50-31.50 W	0.94	88.0%	10-42 V	
	800mA	0.20A	38.18 W	8.00-33.60 W	0.95	88.0%	10-42 V	
	850mA	0.21A	38.63 W	8.50-34.00 W	0.95	88.0%	10-40 V	
	900mA	0.22A	40.90 W	9.00-36.00 W	0.96	88.0%	10-40 V	
	950mA	0.23A	43.18 W	9.50-38.00 W	0.96	88.0%	10-40 V	
1000mA	0.24A	45.45 W	10.00-40.00 W	0.97	88.0%	10-40 V		
1050mA	0.24A	47.72 W	10.50-42.00 W	0.97	88.0%	10-40 V		

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Other electrical data		
Output type	Constant current	Features
Dimming type	DALI-2	
IP grade	IP20	
Insulation class	Class II	
Nominal input voltage	220-240 VAC	Input
Input voltage	198-264 VAC	
Input voltage DC	180-280 VDC	
Mains frequency	50/60 Hz	
Overvoltage protection	2h@380VAC, 48h@320VAC	
Input Current	≤0.24A (230VAC, full load)	
Input Power	≤47.72 W (230VAC, full load)	
iTHD	≤15% (230VAC, full load)	
Standby power Consumption	≤0.5W @230VAC (Dim to off)	
Inrush current	≤18A/2.8μs (230VAC, full load)	
Connected quantity of 10A Breaker	11pcs/type A; 17pcs/type B; 28pcs/type C @230 VAC	Output
Connected quantity of 16A Breaker	18pcs/type A; 27pcs/type B; 44pcs/type C @230 VAC	
Connected quantity of 20A Breaker	22pcs/type A; 33pcs/type B; 55pcs/type C @230 VAC	
Output voltage range	10-42VDC @ 300-800mA, 10-40VDC @ 850-1050mA	
No load voltage	59VDC Max.	
Output current	300-1050mA (Factory set current of 300mA)	
Max. output power	42 W	
Efficiency	≥ 88% (230VAC, full load @ max current)	
Output LF current ripple (< 120 Hz)	±3% (Imax-Imin) / (Imax+Imin)	
Current accuracy	±5%	
PSTLM (Flicker value)	≤ 1	Control mode
SVM (Stroboscopic effects value)	≤ 0,4	
Starting time (AC mode)	≤0.8S (230VAC, full load, by DALI system)	
Secondary PUSH dimming	Secondary PUSH dimming (Max. lead wire lenght: 20m, same port of DALI)	
PUSH-button	Max parallel connections qty for PUSH-dim 15	Control mode
DALI	DALI dimming (Max. lead wire lenght: 300m); logarithm or linear dimming curve selectable	
Dimming range	DALI dimming: 1% - 100%	
Short circuit protection	Auto recovery	Protections
Overload protection	Auto recovery (not be hot swap)	
No-load protection	Auto recovery	
Insulation voltage	3750V 5mA 2S between PRI-SEC	
Insulation resistance	>100M ohm @500VDC L/N to PE	
Leakage current	<700μA, I/P to O/P @230V input	
Ta/Operation temperature	-25...+35 °C	Environment
Ts/Storage temperature	-25...+75 °C	
Tc/Enclosure temperature	75 °C	
Humidity	10%...90%RH	
Atmosphere	86-108KPa	

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Connection method	Push-in terminal	Construction
Installation	Independent	
SEC wire preparation	0,3-0,75 mm ²	
DALI wire preparation	0,5-1,5 mm ² / 8-9mm	
Dimensions	217,8x31,1x42,2mm (LxWxH)	
Certification	ENEC 18	Standards
Safety standards	EN61347-1:2015/A1:2021; EN61347-2-13:2014/A1:2017	
Performance	EN62384	
DALI performance	EN 62386-101 (DALI-2); EN 62386-102 (DALI-2); EN 62386-207 (DALI-2, including part 251, 252, 253)	
Surge	L/N-Ground: 2Kv; L-N: 1kV	
RoHs	Complied to 2011/65/EU	
Life time	50000h Tc=75 °C 75000h Tc=70 °C 100000h Tc=65 °C	

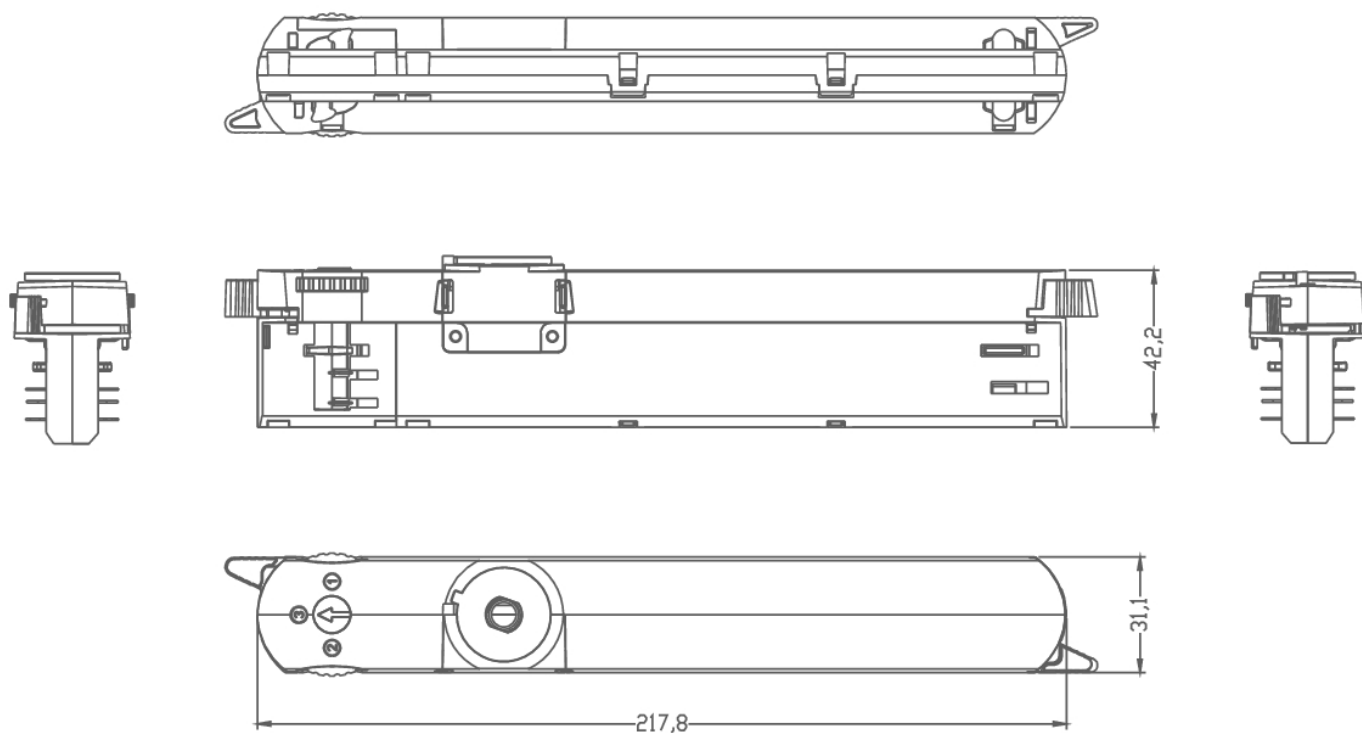
Output current setting

Output Current	1	2	3	4
300mA	-	-	-	-
350mA	-	-	-	ON
400mA	-	-	ON	-
450mA	-	-	ON	ON
500mA	-	ON	-	-
550mA	-	ON	-	ON
600mA	-	ON	ON	-
650mA	-	ON	ON	ON
700mA	ON	-	-	-
750mA	ON	-	-	ON
800mA	ON	-	ON	-
850mA	ON	-	ON	ON
900mA	ON	ON	-	-
950mA	ON	ON	-	ON
1000mA	ON	ON	ON	-
1050mA	ON	ON	ON	ON

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Product dimensions



Product weight

A40SC42D006x	155 gr.
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SC TRACK PS DALI/PUSH

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Wiring diagram

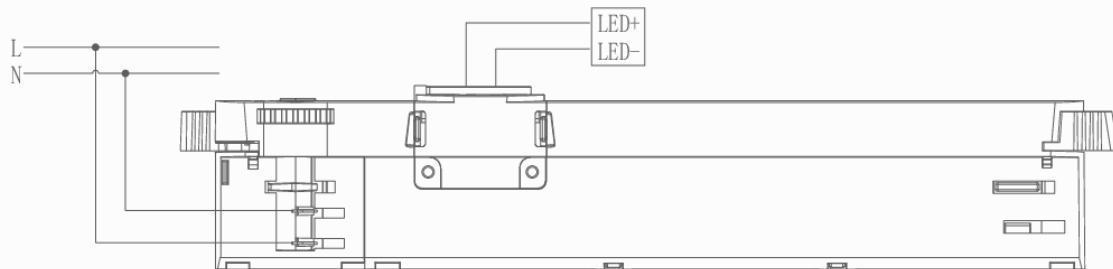


Fig.A:PushDimming

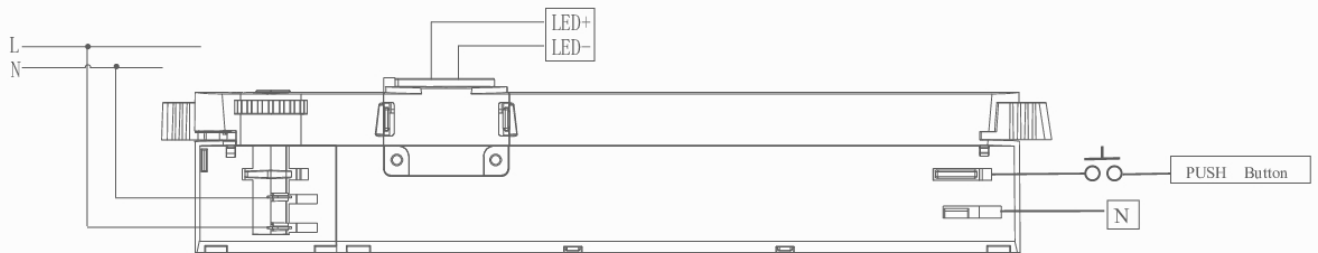
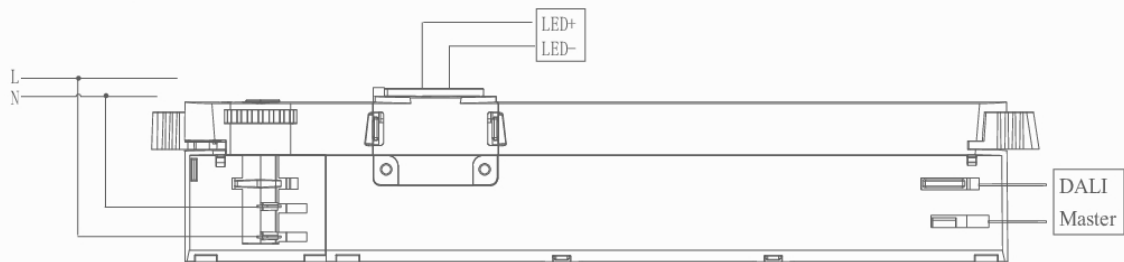


Fig. B: DALI Dimming

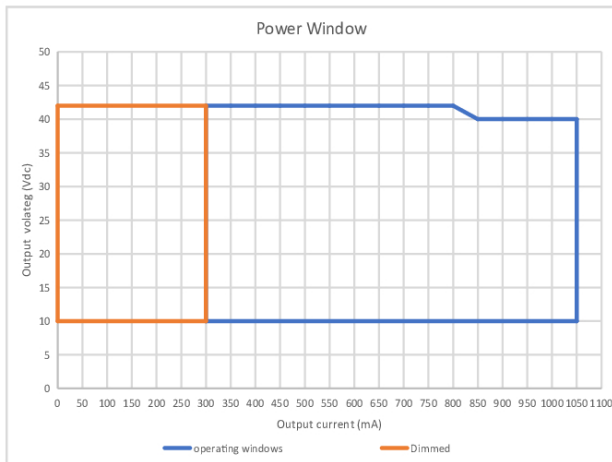


SC TRACK PS DALI/PUSH

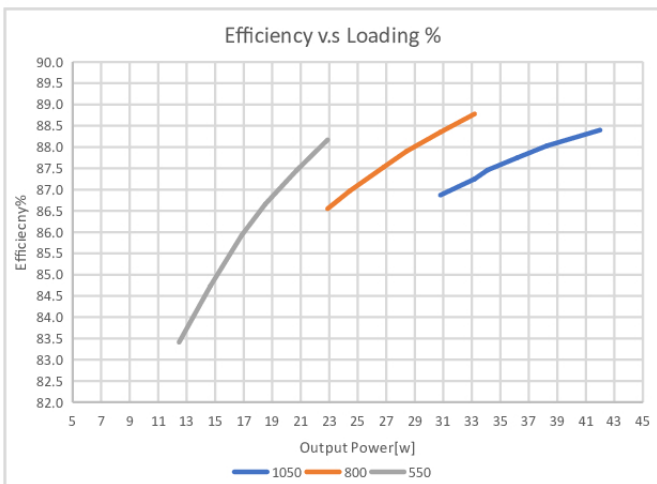
Constant current dimmable LED driver / Alimentatore dimmerabile per LED a corrente costante

Electrical values

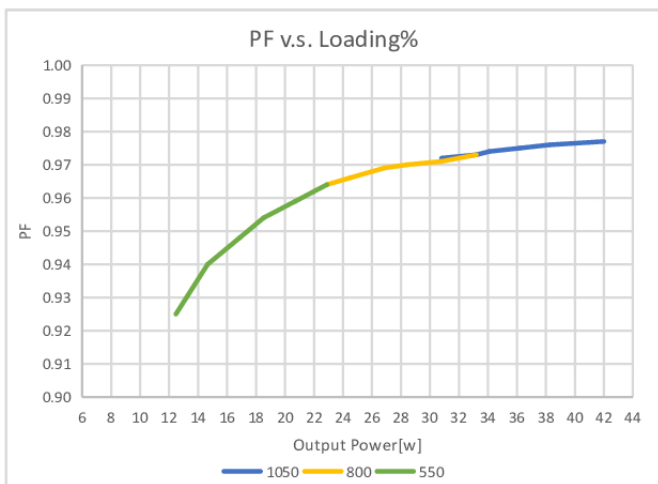
1. Operating power windows



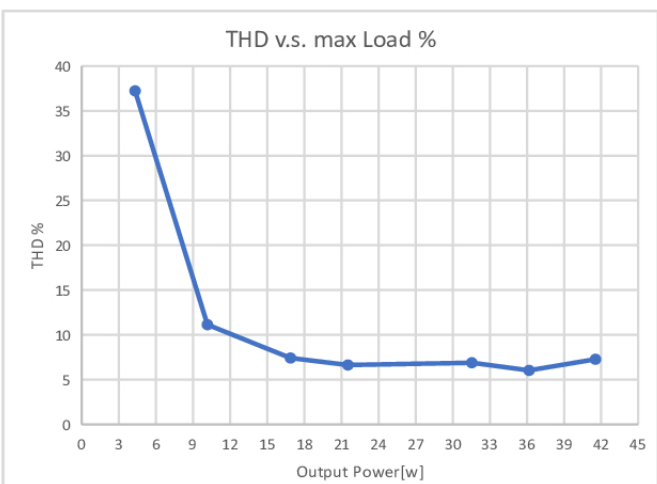
2. Efficiency v.s. Load



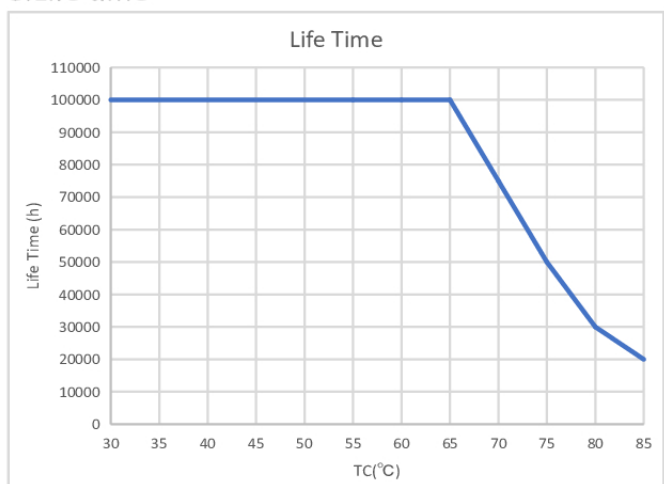
3. PF v.s. Load



4. THD v.s. Load



5. Life time



SC TRACK PS DALI/PUSH

Constant current dimmable LED driver / Alimentatore dimmerabile per LED a corrente costante



Part number	Output Current	Input Current	Input Power	Output Power Range	λ Power Factor	Efficiency @230V	Output Voltage	No Load Voltage
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	350mA	0.08A	16.99 W	3.50-14.70 W	0.87	86.5%	10-42 V	
	400mA	0.09A	19.31 W	4.00-16.80 W	0.88	87.0%	10-42 V	
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	500mA	0.15A	23.91 W	5.00-21.00 W	0.90	87.8%	10-42 V	
	550mA	0.16A	26.25 W	5.50-23.10 W	0.91	88.0%	10-42 V	
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	650mA	0.18A	31.02 W	6.50-27.30 W	0.93	88.0%	10-42 V	
	700mA	0.19A	33.41 W	7.00-29.40 W	0.94	88.0%	10-42 V	
	750mA	0.20A	35.79 W	7.50-31.50 W	0.94	88.0%	10-42 V	
	800mA	0.20A	38.18 W	8.00-33.60 W	0.95	88.0%	10-42 V	
	850mA	0.21A	38.63 W	8.50-34.00 W	0.95	88.0%	10-40 V	
	900mA	0.22A	40.90 W	9.00-36.00 W	0.96	88.0%	10-40 V	
	950mA	0.23A	43.18 W	9.50-38.00 W	0.96	88.0%	10-40 V	
	1000mA	0.24A	45.45 W	10.00-40.00 W	0.97	88.0%	10-40 V	
1050mA	0.24A	47.72 W	10.50-42.00 W	0.97	88.0%	10-40 V		

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Other electrical data		
Output type	Constant current	Features
Dimming type	DALI-2	
IP grade	IP20	
Insulation class	Class II	
Nominal input voltage	220-240 VAC	Input
Input voltage	198-264 VAC	
Input voltage DC	180-280 VDC	
Mains frequency	50/60 Hz	
Overvoltage protection	2h@380VAC, 48h@320VAC	
Input Current	≤0.24A (230VAC, full load)	
Input Power	≤47.72 W (230VAC, full load)	
iTHD	≤15% (230VAC, full load)	
Standby power Consumption	≤0.45W Dim to off, 230VAC)	
Inrush current	≤18A/2.8μs (230VAC, full load)	
Connected quantity of 10A Breaker	11pcs/type A; 17pcs/type B; 28pcs/type C @230 VAC	
Connected quantity of 13A Breaker	14pcs/type A; 22pcs/type B; 36pcs/type C @230 VAC	
Connected quantity of 16A Breaker	18pcs/type A; 27pcs/type B; 44pcs/type C @230 VAC	
Connected quantity of 20A Breaker	22pcs/type A; 33pcs/type B; 55pcs/type C @230 VAC	
Output voltage range	10-42VDC @ 300-800mA, 10-40VDC @ 850-1050mA	Output
No load voltage	59VDC Max.	
Output current	300-1050mA (Factory set current of 300mA)	
Max. output power	42 W	
Efficiency	≥ 88% (230VAC, full load @ max current)	
Output LF current ripple (< 120 Hz)	±3% (Imax-Imin) / (Imax+Imin)	
Current accuracy	±5%	
PSTLM (Flicker value)	≤ 1	
SVM (Stroboscopic effects value)	≤ 0,4	
Starting time (AC mode)	≤0.8S (230VAC, full load, by DALI system)	
Secondary PUSH dimming	Secondary PUSH dimming (Max. lead wire lenght: 20m, same port of DALI)	Control mode
PUSH-button	Max parallel connections qty for PUSH-dim 15	
DALI	DALI dimming (Max. lead wire lenght: 300m); logarithm or linear dimming curve selectable	
Dimming range	DALI dimming: 1% - 100%	
Short circuit protection	Auto recovery	Protections
Overload protection	Auto recovery (not be hot swap)	
No-load protection	Auto recovery	
Insulation voltage	3750V 5mA 2S between PRI-SEC	
Insulation resistance	>100M ohm @500VDC L/N to PE	
Leakage current	<700μA, I/P to O/P @230V input	

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Ta/Operation temperature	-25...+35 °C	Environment
Ts/Storage temperature	-30...+70 °C	
Tc/Enclosure temperature	70 °C	
Humidity	10%...90%RH	
Atmosphere	86-108KPa	
Connection method	Push-in terminal	Construction
Installation	Indipendent	
SEC wire preparation	0,3-0,75 mm ²	
DALI wire preparation	0,5-1,5 mm ² / 8-9mm	
Cable selection	0,5 mm ² @15m distance	
Cable selection	0,75 mm ² @30m distance	
Cable selection	1,0 mm ² @50m distance	
Dimensions	255,5x35 x43mm (LxWxH)	Standards
Certification	ENEC 18	
Safety standards	EN61347-1:2015/A1:2021; EN61347-2-13:2014/A1:2017	
Performance	EN62384	
DALI performance	EN 62386-101 (DALI-2); EN 62386-102 (DALI-2); EN 62386-207 (DALI-2, including part 251, 252, 253)	
Surge	L/N-Ground: 2Kv; L-N: 1kV	
RoHs	Complied to 2011/65/EU	
Life time	50000h Tc=70 °C 75000h Tc=65 °C 100000h Tc=60 °C	

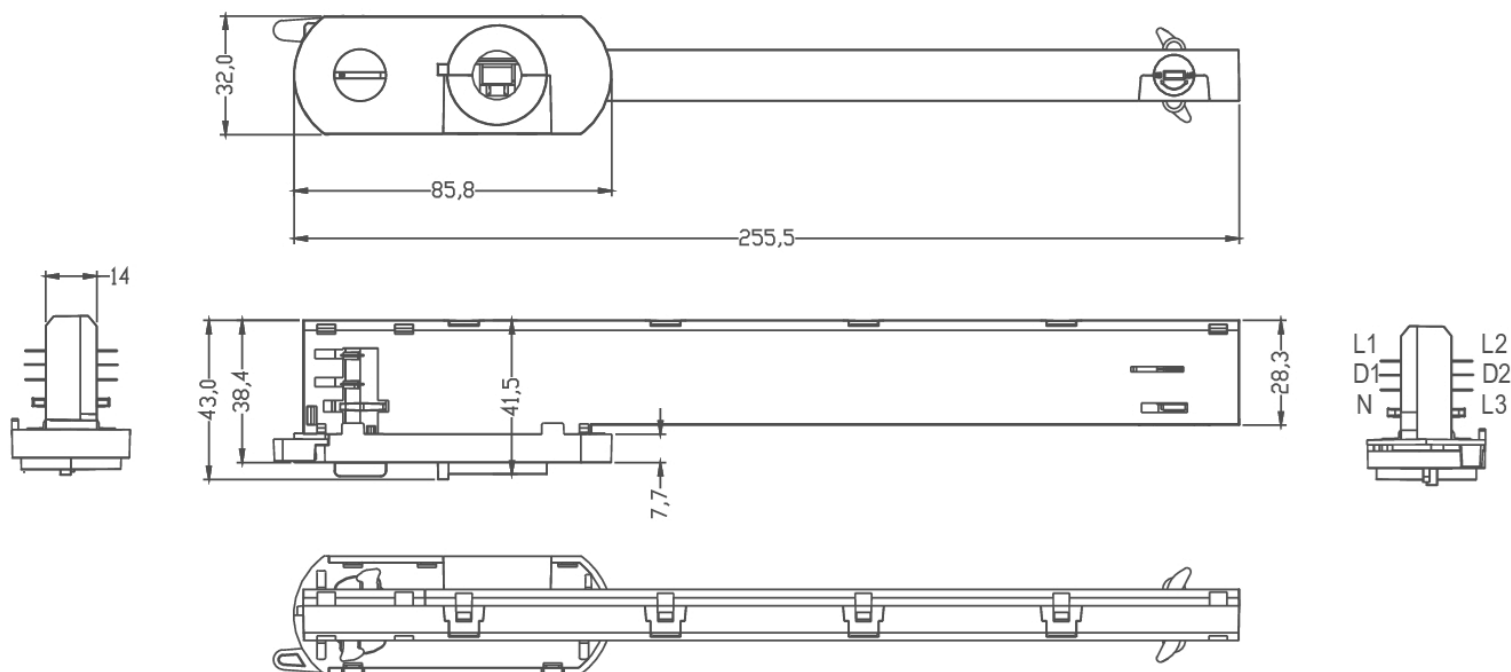
Output current setting

Output Current	1	2	3	4
300mA	-	-	-	-
350mA	-	-	-	ON
400mA	-	-	ON	-
450mA	-	-	ON	ON
500mA	-	ON	-	-
550mA	-	ON	-	ON
600mA	-	ON	ON	-
650mA	-	ON	ON	ON
700mA	ON	-	-	-
750mA	ON	-	-	ON
800mA	ON	-	ON	-
850mA	ON	-	ON	ON
900mA	ON	ON	-	-
950mA	ON	ON	-	ON
1000mA	ON	ON	ON	-
1050mA	ON	ON	ON	ON

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Product dimensions (mm)



Product weight

A40SC42DED6x	125 gr.
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Wiring diagram

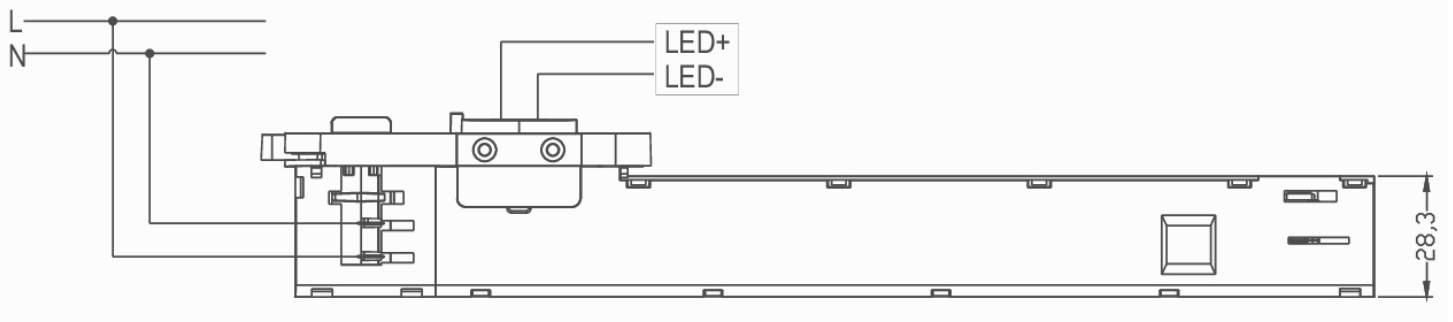


Fig. A: Push Dimming

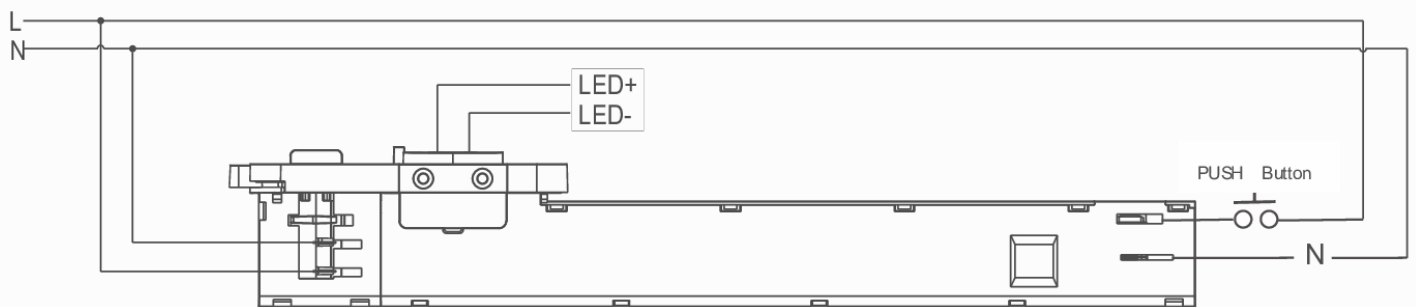
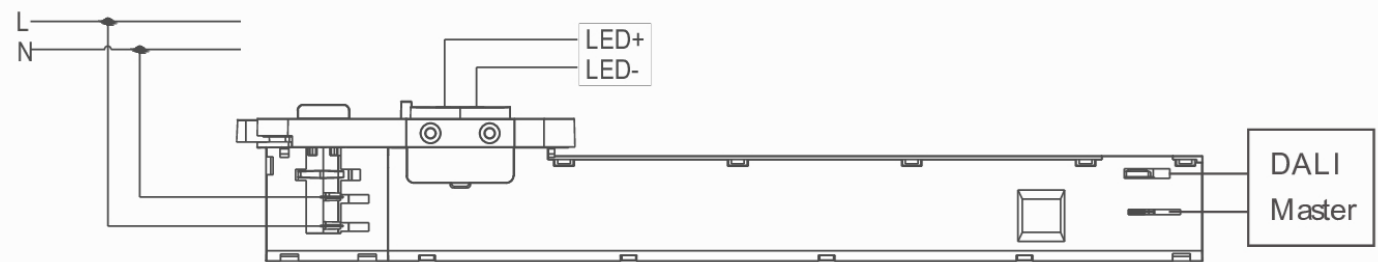


Fig. B: DALI Dimming

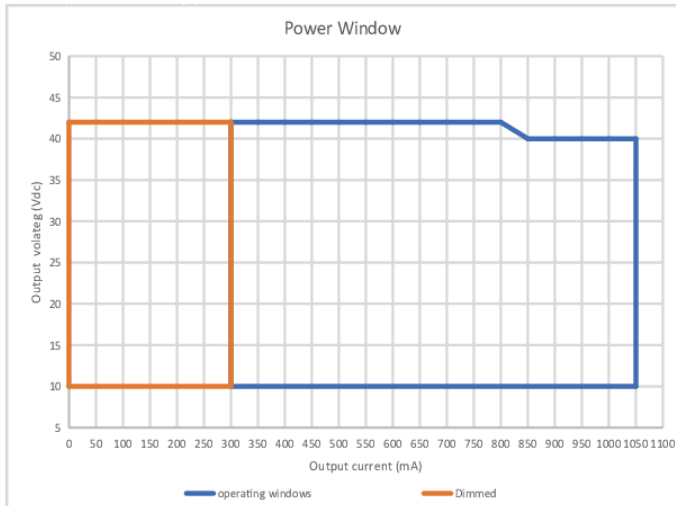


SC TRACK PS DALI/PUSH

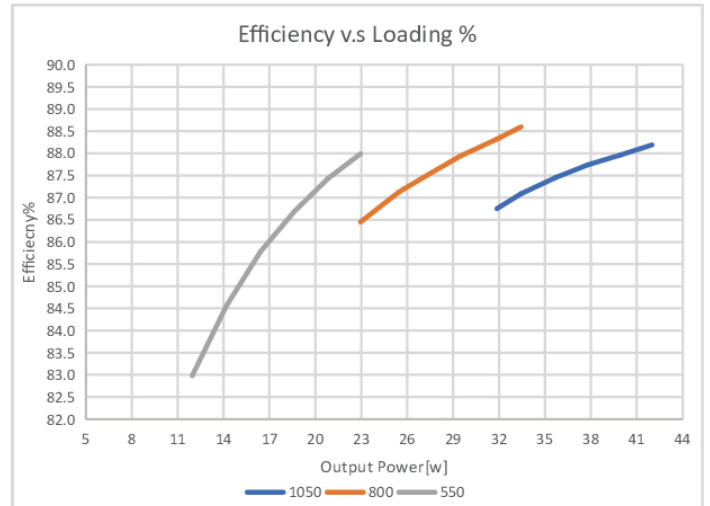
Constant current dimmable LED driver / Alimentatore dimmerabile per LED a corrente costante

Electrical values

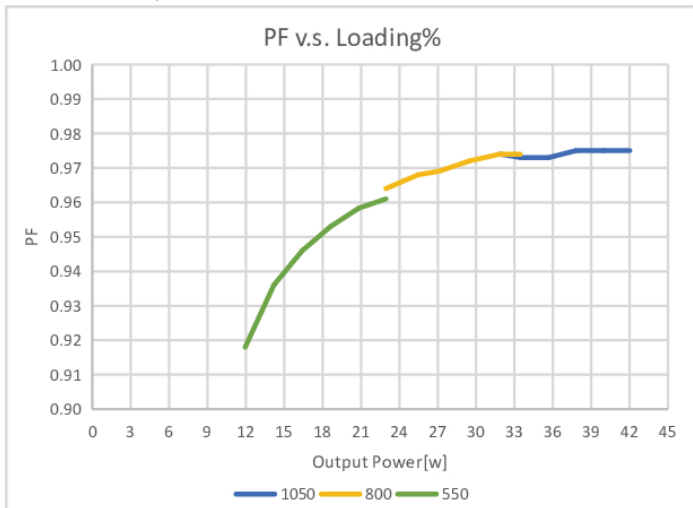
1. Operating power windows



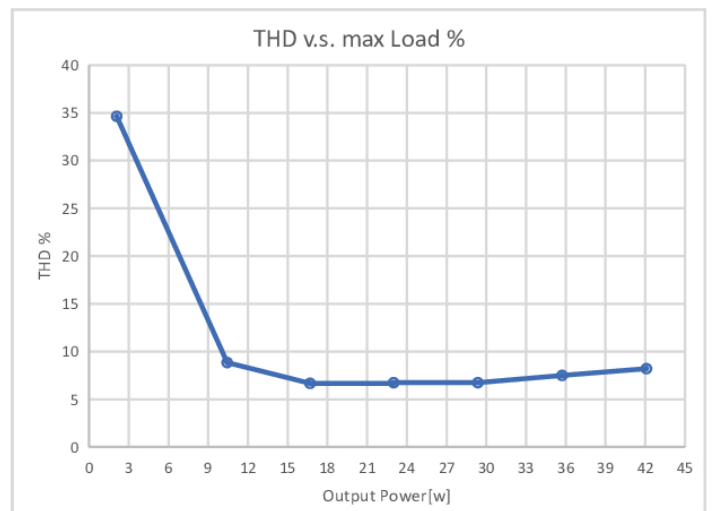
2. Efficiency v.s. Load



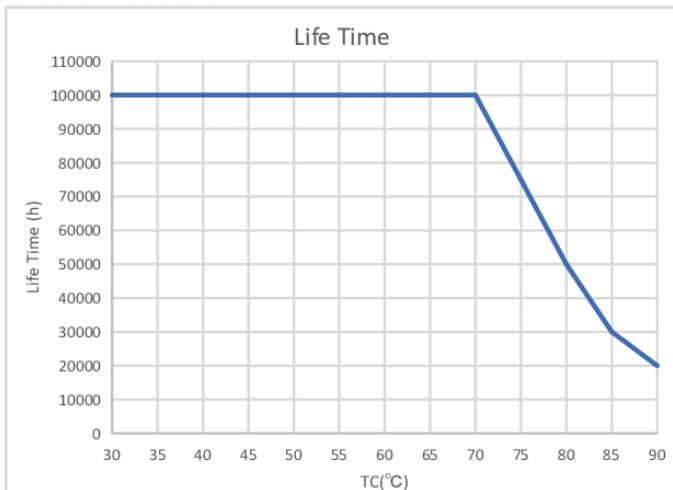
2. Efficiency v.s. Load



3. PF v.s. Load



4. THD v.s. Load



6. Derating

