

## DALI CC – DALI/PUSH DIMMABLE – MULTICURRENT

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



Part number	Output Current	Output Current	Input Power	Output Power Range	$\lambda$ Power Factor	Efficiency @230V	Output Voltage	No Load Voltage
<b>A40CC23WD00B</b>	100mA	0.03A	6.1W	0.25-4.60W	0.78	75%	2.5-46V	60V Max.
	150mA	0.04A	8.6W	0.37-6.90W	0.85	80%		
	200mA	0.05A	11.2W	0.50-9.20W	0.89	82%		
	250mA	0.06A	13.6W	0.62-11.50W	0.91	84%		
	300mA	0.07A	16.0W	0.75-13.80W	0.93	86%		
	350mA	0.08A	18.5W	0.87-16.10W	0.94	87%		
	400mA	0.09A	21.1W	1.00-18.40W	0.94	87%		
	450mA	0.10A	23.5W	1.12-20.70W	0.95	88%		
	500mA	0.11A	26.1W	1.25-23.00W	0.96	88%		
	550mA	0.11A	26.2W	1.37-23.10W	0.96	88%	2.5-42V	
	600mA	0.11A	26.2W	1.50-22.80W	0.96	87%	2.5-38V	
	650mA	0.11A	26.1W	1.62-22.75W	0.96	87%	2.5-35V	
700mA	0.12A	26.5W	1.75-23.10W	0.96	87%	2.5-33V		

### CC23WD - Output current setting

Output Current	1	2	3	4
100mA	-	-	-	-
150mA	-	-	-	ON
200mA	-	-	ON	-
250mA	-	-	ON	ON
300mA	-	ON	-	-
350mA	-	ON	-	ON
400mA	-	ON	ON	-
450mA	-	ON	ON	ON
500mA	ON	-	-	-
550mA	ON	-	-	ON
600mA	ON	-	ON	-
650mA	ON	-	ON	ON
700mA	ON	ON	-	-



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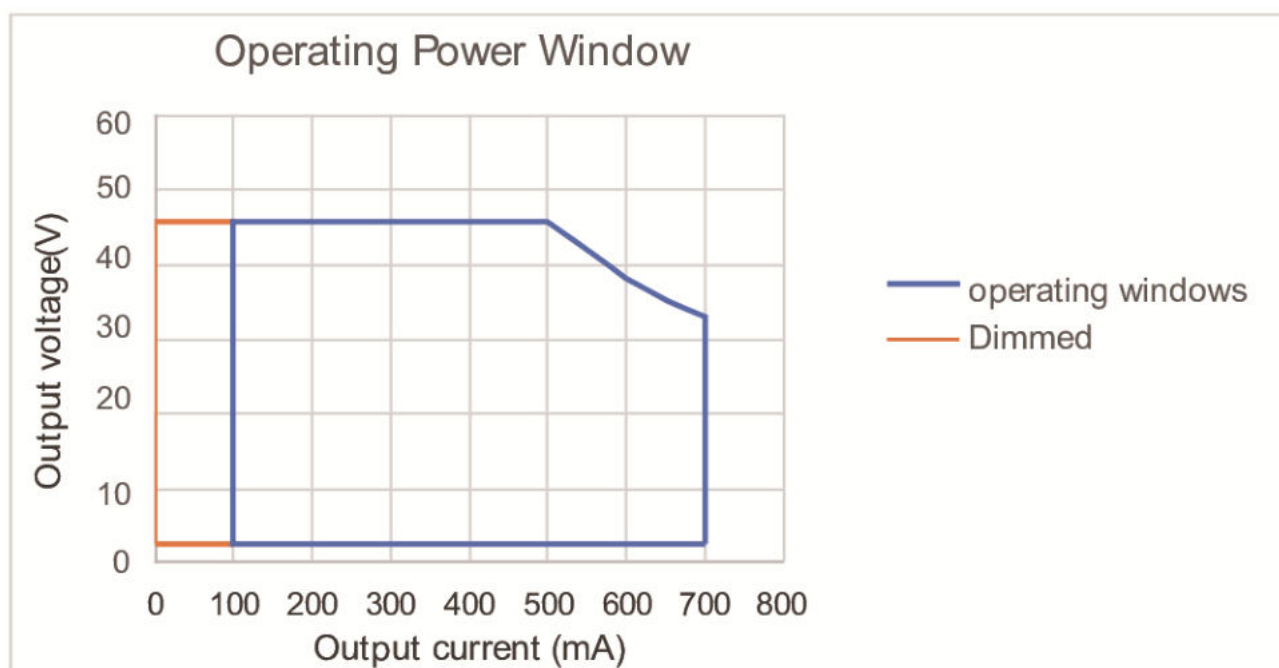
CC23WD - Other electrical data		
Output type	Constant current	Features
Dimming type	DALI-2/ PUSH-button	
IP grade	IP20	
Insulation class	Class II (compatible Class I)	
Nominal input voltage	220-240 VAC	Input
Input voltage	198-264 VAC	
Input voltage DC	180-280 VDC	
Mains frequency	0/50/60 Hz, Range:0/47-63Hz	
Overvoltage protection	2h@380VAC, 48h@320VAC	
Input Current	≤0.12A (230VAC, full load)	
Input Power	≤26.5W (230VAC, full load)	
iTHD	≤15% (230VAC, full load)	
Standby power Consumption	≤0.45W Dim to off, 230VAC)	
Inrush current	≤7.9A/2.6μs (230VAC, full load)	
Connected quantity of 10A Breaker	24pcs/type A; 39pcs/type B; 63pcs/type C	
Connected quantity of 10A Breaker	39pcs/type A; 63pcs/type B; 101pcs/type C	
Connected quantity of 10A Breaker	49pcs/type A; 79pcs/type B; 126pcs/type C	
Output voltage range	2.5-46VDC @ 100-500mA, 2.5-42VDC @ 550mA 2.5-38VDC @ 600mA, 2.5-35VDC @ 650mA 2.5-33VDC @ 700mA	Output
No load voltage	60VDC Max.	
Output current	100-700mA (Factory set current of 100mA)	
Max. output power	23.1W	
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)	
Starting time (DCmode)	≤0.4S	
Switching over time (AC/DC)	≤0.4S	
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	3000V 5mA 60S between P-S	
Insulation resistance	>100M ohm @500VDC L/N to PE	
Leakage current	<700μA, I/P to O/P @230V input	

## DALI CC – DALI/PUSH DIMMABLE – MULTICURRENT

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Ta/Operation temperature	-20...+50 °C	
Ts/Storage temperature	-20...+90 °C	
Tc/Enclosure temperature	85 °C	
Humidity	10%...90%RH	
Atmosphere	86-108KPa	
Connection method	Push-in terminal	Construction
Installation	Indipendent	
PRI wire preparation	0,5-1,5 mm <sup>2</sup> / 8-9mm	
SEC wire preparation	0,5-1,5 mm <sup>2</sup> / 8-9mm	
DALI wire preparation	0,5-1,5 mm <sup>2</sup> / 8-9mm	
Dimensions	163x30x21mm (LxWxH)	
Certification	ENEC 25 (pending)	Standards
Sfety 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=85 °C 75000h Tc=80 °C 100000h Tc=75 °C	

### CC23WD - Output power window





## DALI CC – DALI/PUSH DIMMABLE – MULTICURRENT

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Part number	Output Current	Output Current	Input Power	Output Power Range	$\lambda$ Power Factor	Efficiency @230V	Output Voltage	No Load Voltage
<b>A40CC36WD00B</b>	150mA	0.10A	9.3W	0.37-7.50W	0.77	80%	2.5-50V	60V Max.
	200mA	0.11A	12.3W	0.50-10.00W	0.81	81%		
	250mA	0.12A	15.2W	0.62-12.50W	0.82	82%		
	300mA	0.13A	18.0W	0.75-15.00W	0.83	83%		
	350mA	0.14A	20.8W	0.87-17.50W	0.84	84%		
	400mA	0.15A	23.5W	1.00-20.00W	0.85	85%		
	450mA	0.16A	26.1W	1.12-22.50W	0.86	86%		
	500mA	0.17A	29.0W	1.25-25.00W	0.87	86%		
	550mA	0.18A	31.6W	1.37-27.50W	0.88	87%		
	600mA	0.19A	34.4W	1.50-30.00W	0.89	87%		
	650mA	0.20A	37.3W	1.62-32.50W	0.90	87%		
	700mA	0.21A	39.7W	1.75-35.00W	0.91	88%		
	750mA	0.22A	35.7W	1.87-31.50W	0.92	88%	2.5-42V	
	800mA	0.23A	38.1W	2.00-33.60W	0.93	88%		
	850mA	0.24A	40.5W	2.12-35.70W	0.94	88%	2.5-42V	
900mA	0.25A	40.9W	2.25-36.00W	0.95	88%			

### CC36WD - Output current setting

Output Current	1	2	3	4
150mA	-	-	-	-
200mA	-	-	-	ON
250mA	-	-	ON	-
300mA	-	-	ON	ON
350mA	-	ON	-	-
400mA	-	ON	-	ON
450mA	-	ON	ON	-
500mA	-	ON	ON	ON
550mA	ON	-	-	-
600mA	ON	-	-	ON
650mA	ON	-	ON	-
700mA	ON	-	ON	ON
750mA	ON	ON	-	-
800mA	ON	ON	-	ON
850mA	ON	ON	ON	-
900mA	ON	ON	ON	ON



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

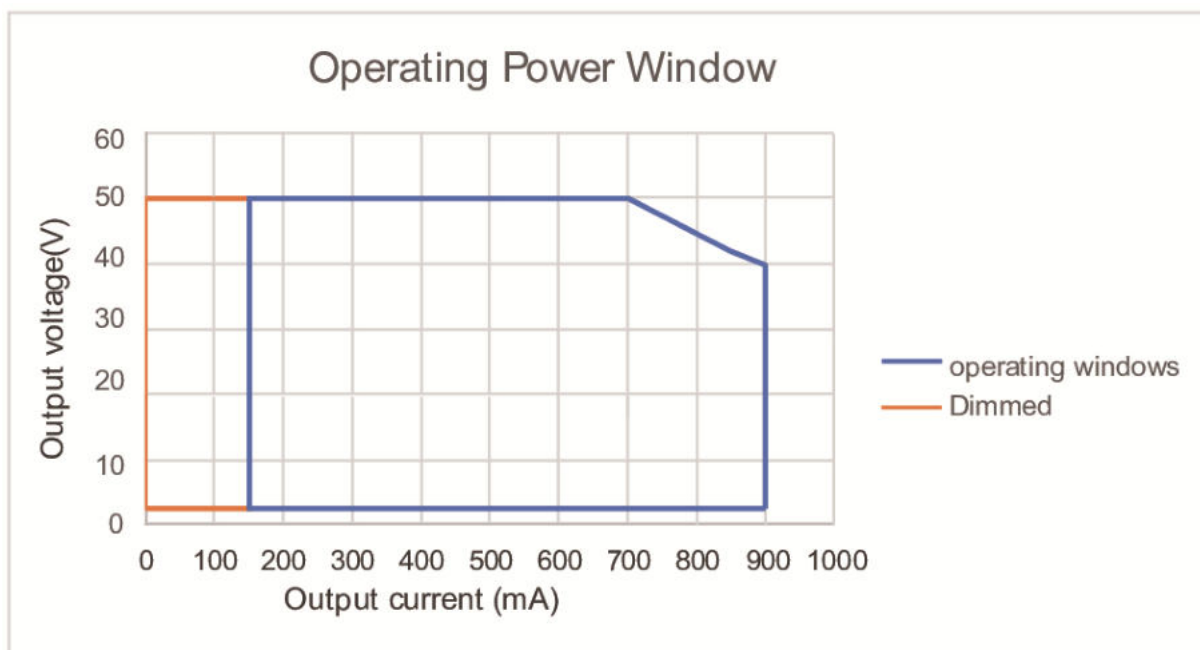
CC36WD - Other electrical data		
Output type	Constant current	Features
Dimming type	DALI-2/ PUSH-button	
IP grade	IP20	
Insulation class	Class II (compatible Class I)	
Nominal input voltage	220-240 VAC	Input
Input voltage	198-264 VAC	
Input voltage DC	180-280 VDC	
Mains frequency	0/50/60 Hz, Range:0/47-63Hz	
Overvoltage protection	2h@380VAC, 48h@320VAC	
Input Current	≤0.25A (230VAC, full load)	
Input Power	≤40.9W (230VAC, full load)	
iTHD	≤10% (230VAC, full load)	
Standby power Consumption	≤0.45W Dim to off, 230VAC)	
Inrush current	≤8.5A/16μs (230VAC, full load)	
Connected quantity of 10A Breaker	23pcs/type A; 37pcs/type B; 59pcs/type C	
Connected quantity of 10A Breaker	37pcs/type A; 59pcs/type B; 94pcs/type C	
Connected quantity of 10A Breaker	46pcs/type A; 74pcs/type B; 118pcs/type C	
Output voltage range	2.5-50VDC @ 150-700mA 2.5-42VDC @ 750-800mA 2.5-40VDC @ 900mA	Output
No load voltage	60VDC Max.	
Output current	150-900mA (Factory set current of 150mA)	
Max. output power	36W	
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)	
Starting time (DCmode)	≤0.4S	
Switching over time (AC/DC)	≤0.4S	
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	3000V 5mA 60S between P-S	
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	-20...+50 °C	
Ts/Storage temperature	-20...+90 °C	
Tc/Enclosure temperature	90 °C	
Humidity	10%...90%RH	
Atmosphere	86-108KPa	
Connection method	Push-in terminal	Construction
Installation	Indipendent	
PRI wire preparation	0,5-1,5 mm <sup>2</sup> / 8-9mm	
SEC wire preparation	0,5-1,5 mm <sup>2</sup> / 8-9mm	
DALI wire preparation	0,5-1,5 mm <sup>2</sup> / 8-9mm	
Dimensions	163x30x21mm (LxWxH)	
Certification	ENEC 25 (pending)	Standards
Sfety 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=90 °C 75000h Tc=85 °C 100000h Tc=80 °C	

### CC36WD - Output power window





## DALI CC – DALI/PUSH DIMMABLE – MULTICURRENT

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Part number	Output Current	Output Current	Input Power	Output Power Range	$\lambda$ Power Factor	Efficiency @230V	Output Voltage	No Load Voltage
<b>A40CC44WD00B</b>	300mA	0.12A	17.13W	2.70-14.70W	0.86	86%	9-49V	59V Max.
	350mA	0.13A	19.83W	3.15-17.15W	0.87	86.5%		
	400mA	0.14A	22.53W	3.60-19.60W	0.88	87%		
	450mA	0.15A	25.20W	4.05-22.05W	0.89	87.5%		
	500mA	0.16A	27.90W	4.50-24.50W	0.90	88%		
	550mA	0.17A	30.62W	4.95-26.95W	0.91	88%		
	600mA	0.18A	33.41W	5.40-29.40W	0.92	88%		
	650mA	0.19A	36.19W	5.85-31.85W	0.93	88%		
	700mA	0.21A	38.97W	6.30-34.30W	0.94	88%		
	750mA	0.22A	40.90W	6.75-36.00W	0.94	88%	9-48V	
	800mA	0.22A	40.90W	7.20-36.00W	0.95	88%	9-45V	
	850mA	0.23A	43.46W	7.65-38.25W	0.95	88%		
	900mA	0.24A	46.02W	8.10-40.50W	0.95	88%		
	950mA	0.24A	45.34W	8.55-39.90W	0.95	88%	9-42V	
	1000mA	0.25A	47.72W	9.00-42.00W	0.95	88%		
1050mA	0.26A	50.11W	9.45-44.10W	0.95	88%			

### CC44WD - 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





## DALI CC – DALI/PUSH DIMMABLE – MULTICURRENT

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

CC44WD - Other electrical data			
Output type	Constant current		Features
Dimming type	DALI-2/ PUSH-button		
IP grade	IP20		
Insulation class	Class II (compatible Class I)		
Nominal input voltage	220-240 VAC		Input
Input voltage	198-264 VAC		
Input voltage DC	180-280 VDC		
Mains frequency	0/50/60 Hz, Range:0/47-63Hz		
Overvoltage protection	2h@380VAC, 48h@320VAC		
Input Current	≤0.26A (230VAC, full load)		
Input Power	≤50.11W (230VAC, full load)		
iTHD	≤15% (230VAC, full load)		
Standby power Consumption	≤0.45W Dim to off, 230VAC)		
Inrush current	≤20A/29μs (230VAC, full load)		
Connected quantity of 10A Breaker	10pcs/type A; 16pcs/type B; 25pcs/type C		
Connected quantity of 10A Breaker	16pcs/type A; 25pcs/type B; 40pcs/type C		
Connected quantity of 10A Breaker	20pcs/type A; 31pcs/type B; 50pcs/type C		
Output voltage range	9-49VDC @ 300-700mA 9-45VDC @ 800-900mA	9-48VDC @ 750mA 9-42VDC @ 950mA-1050mA	Output
No load voltage	59VDC Max.		
Output current	300-1050mA (Factory set current of 150mA)		
Max. output power	44.1W		
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)		
Starting time (DCmode)	≤0.4S		
Switching over time (AC/DC)	≤0.4S		
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	3000V 5mA 60S between P-S		
Insulation resistance	>100M ohm @500VDC L/N to PE		
Leakage current	<700μA, I/P to O/P @230V input		

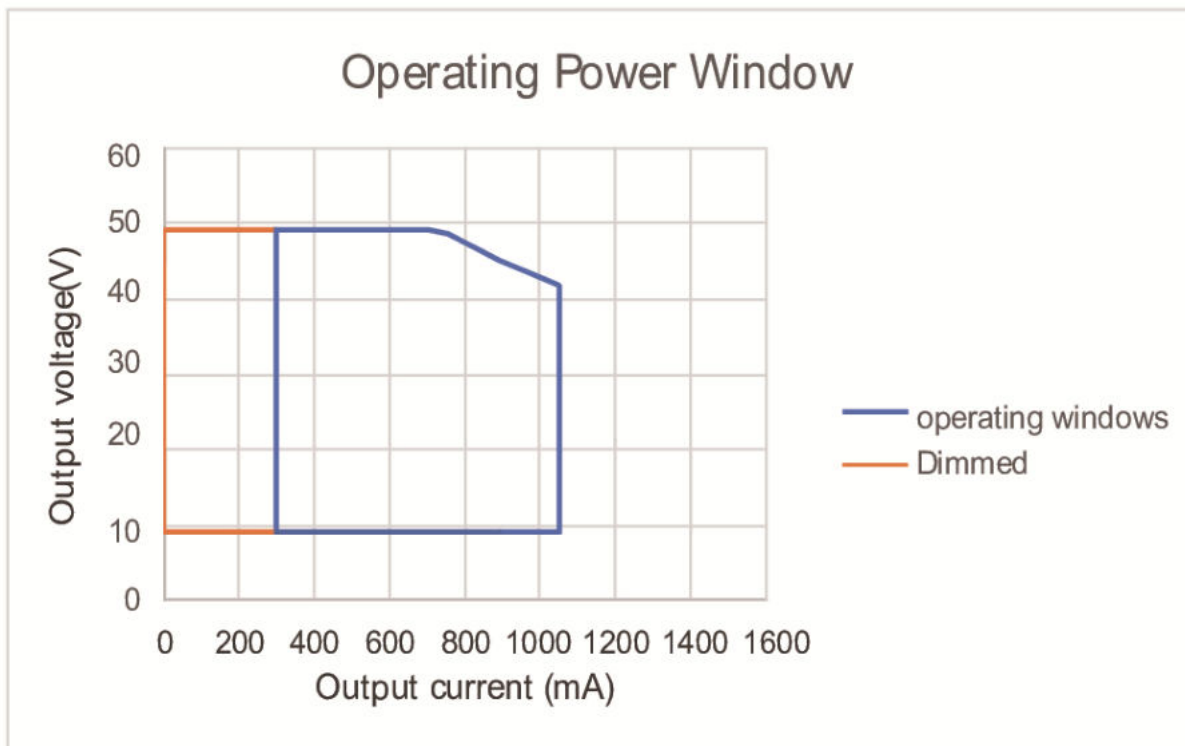


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Ta/Operation temperature	-25...+45 °C @300-1000mA; -20...+40 °C @1050mA	
Ts/Storage temperature	-40...+90 °C	
Tc/Enclosure temperature	90 °C	
Humidity	10%...90%RH	
Atmosphere	86-108KPa	
Connection method	Push-in terminal	Construction
Installation	Indipendent	
PRI wire preparation	0,5-1,5 mm <sup>2</sup> / 8-9mm	
SEC wire preparation	0,5-1,5 mm <sup>2</sup> / 8-9mm	
DALI wire preparation	0,5-1,5 mm <sup>2</sup> / 8-9mm	
Dimensions	163x30x21mm (LxWxH)	
Certification	ENEC25	Standards
Sfety 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=90 °C 75000h Tc=85 °C 100000h Tc=80 °C	

### CC44WD - Output power window

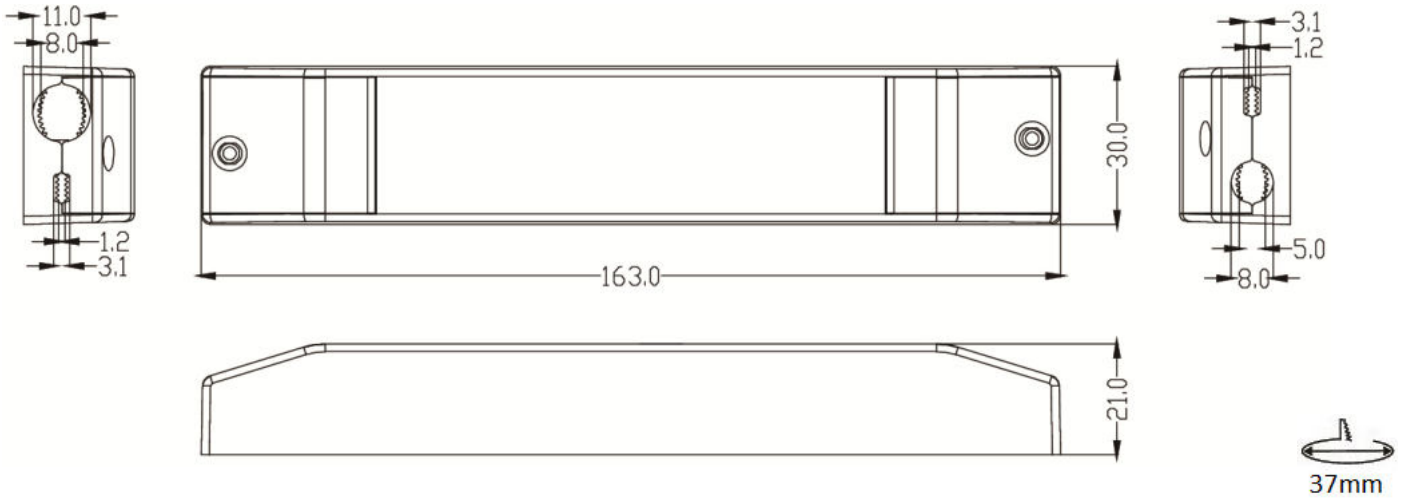


### Product dimensions

## DALI CC – DALI/PUSH DIMMABLE – MULTICURRENT

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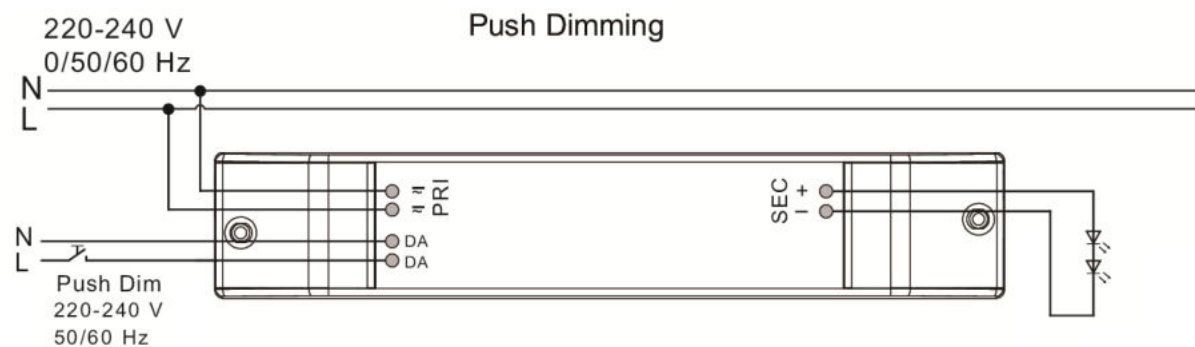
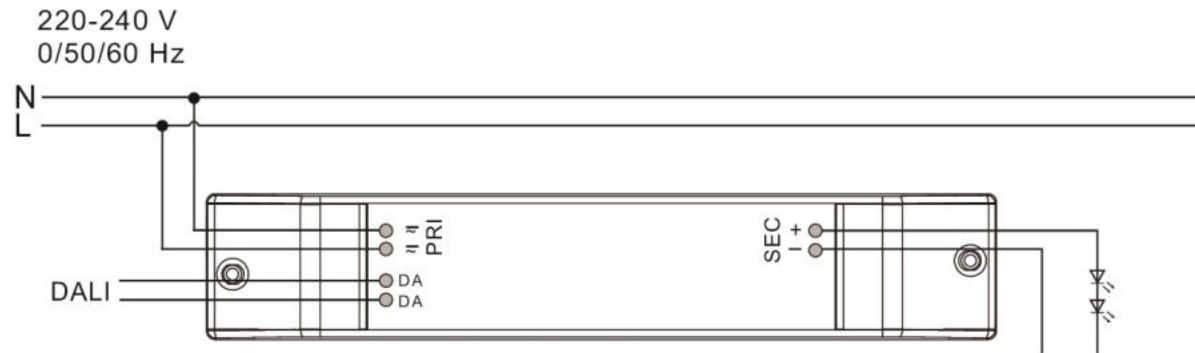
### CC23WD – CC36WD - CC44WD



### Product weight

A40CC23WD00B / A40CC36WD00B / A40CC44WD00B	95 gr. / 120 gr. / 130 gr.
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### Wiring diagram



## DALI CC – DALI/PUSH DIMMABLE – MULTICURRENT

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

#### **PUSH-BUTTON mode / Modalità pulsante**

The voltage line for push-button must be the same line as on the mains input of the driver.  
Use of push-button with indicator lamp is not permitted.

La linea del pulsante e quella dell'ingresso di rete del driver dev'essere la stessa.  
Non è consentito l'uso di pulsanti dotati di spia.

#### **ON/OFF and Dimming / ON/OFF e dimmerazione**

Brief push (0.12 s-0.6 s): ON and OFF mode  
Long push (> 0.6 s): stepless dimming function

Pressione breve del pulsante (0.12 s-0.6 s): ON/OFF  
Pressione prolungata del pulsante (> 0,6 s): dimmerazione

#### **Power Off Memory Function / Funzione memoria di stato**

The dimming level is saved at power-off and restored at power-on.  
Il livello di dimmerazione viene salvato allo spegnimento e ripristinato all'accensione.

#### **Push Dim / Dimmerazione**

Holding push button, LED modules are dimmed  
Releasing Push-button, the wished light level is set  
Pushing again, the LED modules will be dimmed in the opposite direction.  
The dimming range is 1%-100%.

La pressione prolungata del pulsante consente la dimmerazione dei moduli LED.  
Il rilascio del pulsante interrompe la dimmerazione fissando la luce sul livello desiderato.  
La dimmerazione riprenderà nella direzione opposta con una nuova pressione prolungata del pulsante.  
L'intervallo di dimmerazione è da 1% a 100%.

#### **Forced Synchronization / Sincronizzazione forzata**

In installations with LED drivers with different dimming levels or opposite dimming directions (e.g. after a system extension), all LED drivers can be synchronized to 50 % dimming level by a 10 s push.

Nelle installazioni con driver LED posizionati su diversi livelli di dimmerazione o direzioni opposte di dimmerazione (ad esempio in seguito ad un'estensione dell'impianto), tutti i driver LED possono essere sincronizzati.  
Con una pressione prolungata del pulsante (10 s), tutti i driver verranno sincronizzati al livello di dimmerazione del 50%.

#### **Push Dimming rate (time to go from minimum to maximum light level and viceversa)**

#### **Velocità di dimmerazione (tempo per passare dal livello minimo al livello massimo di luce e viceversa)**

Entering into the Synchronization mode by a 10 s push, the dimming rate will be update to 3 s; dimming rate can be changed to 6 s by a long push 20 s.

Entrando nella modalità di sincronizzazione premendo per 10 s, la velocità di dimmerazione verrà aggiornata a 3 s; la velocità di dimmerazione può essere modificata a 6 s premendo a lungo 20 s.