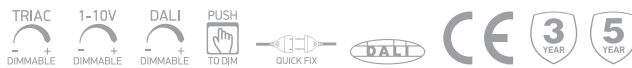


23

LED Drivers

Pages 623-642

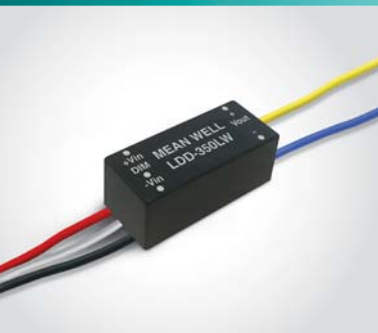
Constant voltage | Constant current





Marine Drivers for Yachts

Constant current

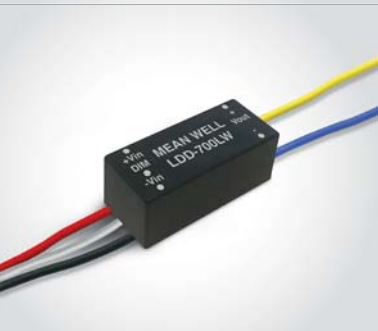
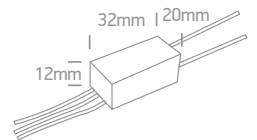


89028M | 9-36V DC | LED Marine driver | 350mA | PWM Dimmable



new

IP20

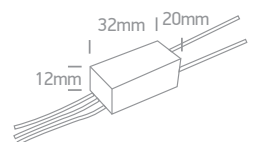


89028AM | 9-36V DC | LED Marine driver | 700mA | PWM Dimmable



new

IP20



Order Code	Input	Power	Output	Class	Dimmable		Notes
89028M	9-36V DC	4,2W@12V / 8,4W@24V / 11,2W@36V	350mA		YES	240	-
89028AM	9-36V DC	8,4W@12V / 16,8W@24V / 22,4W@36V	700mA		YES	240	-

Mini Series Drivers

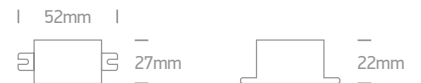
Constant current



89004 | 1-4W | 350mA



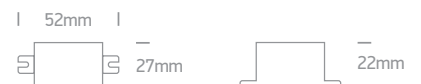
IP66



89004C | 1,5-4,5W | 500mA



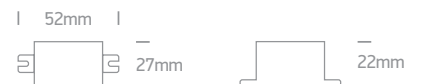
IP66



89004A | 2-4W | 700mA



IP66



Order Code	Input	Power	Output	Class	Dimmable		Notes
89004	100-240V	1-4W	350mA		NO	200	-
89004C	100-240V	1,5-4,5W	500mA		NO	200	-
89004A	100-240V	2-4W	700mA		NO	200	-



The 350mA Range

Constant current



89008 | 4-8W | 350mA



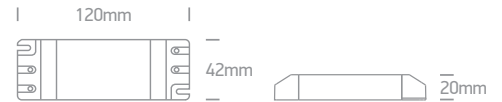
IP20



89015 | 7-15W | 350mA



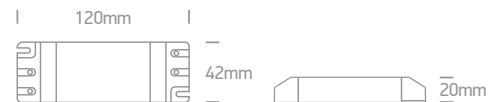
IP20



89020 | 13-20W | 350mA



IP20



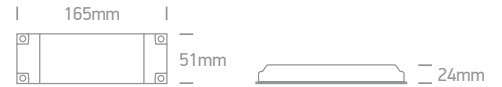
Order Code	Input	Power	Output	Class	Dimmable		Notes
89008	230V	4-8W	350mA		NO	100	-
89015	230V	7-15W	350mA		NO	100	-
89020	230V	13-20W	350mA		NO	100	-

The 500mA Range

89030C | 14-28W | 500mA



IP20

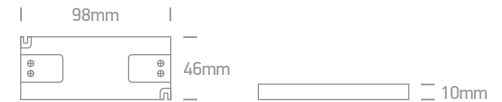


The 700mA Range

89006A | 1-6W | 700mA



IP20



89008A | 4-8W | 700mA



new

IP20



89015A | 7-15W | 700mA



IP20



89030A | 15-30W | 700mA



IP20



Order Code	Input	Power	Output	Class	Dimmable		Notes
89030C	100-240V	14-28W	500mA		NO	100	-
89006A	230V	1-6W	700mA		NO	200	-
89008A	230V	4-8W	700mA		NO	100	-
89015A	230V	7-15W	700mA		NO	100	-
89030A	230V	15-30W	700mA		NO	100	-

The TRIAC Dimmable

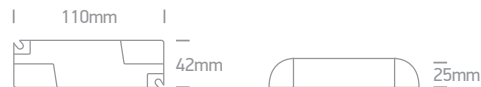
Constant current



89008CT | 4,8-7W | 320mA | TRIAC | Dimmable



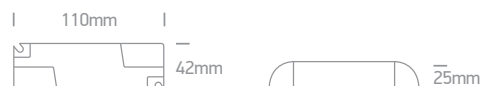
IP20



89012BT | 7,5-10,5W | 250mA | TRIAC | Dimmable



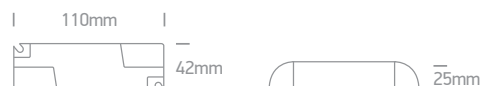
IP20



89016T | 10,5-15W | 350mA | TRIAC | Dimmable



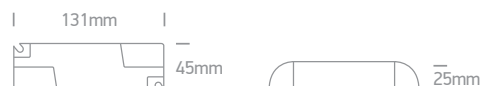
IP20



89018DT | 11,5-18W | 420mA | TRIAC | Dimmable



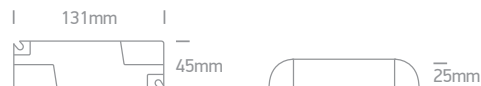
IP20



89022ET | 15-23W | 540mA | TRIAC | Dimmable



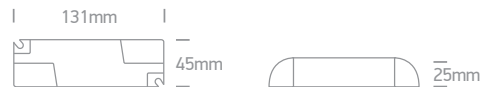
IP20



89030AT | 19-30W | 700mA | TRIAC | Dimmable



IP20

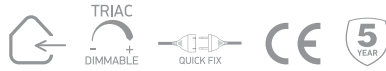


Order Code	Input	Power	Output	Class	Dimmable		Notes
89008CT	230V	4,8-7W	320mA		YES	50	Use TRIAC dimmer
89012BT	230V	7,5-10,5W	250mA		YES	50	Use TRIAC dimmer
89016T	230V	10,5-15W	350mA		YES	1	Use TRIAC dimmer
89018DT	230V	11,5-18W	420mA		YES	50	Use TRIAC dimmer
89022ET	230V	15-23W	540mA		YES	30	Use TRIAC dimmer
89030AT	230V	19-30W	700mA		YES	50	Use TRIAC dimmer

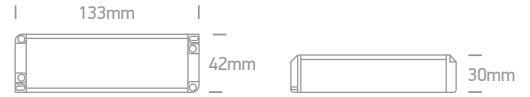
The 350mA TRIAC Dimmable Range

Constant current

89015T | 7-15W | 350mA | TRIAC | Dimmable



IP20



The 700mA TRIAC Dimmable Range

Constant current

89006AT | 3,5-6W | 700mA | TRIAC | Dimmable



new

IP20



89015AT | 7-15W | 700mA | TRIAC | Dimmable



IP20



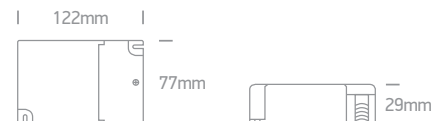
The 1200mA TRIAC Dimmable Range

Constant current

89048T | 32-48W | 1200mA | TRIAC | Dimmable



IP20



Order Code	Input	Power	Output	Class	Dimmable		Notes
89015T	230V	7-15W	350mA		YES	100	Use TRIAC dimmer
89006AT	230V	3,5-6W	700mA		YES	100	Use TRIAC dimmer
89015AT	230V	7-15W	700mA		YES	100	Use TRIAC dimmer
89048T	230V	32-48W	1200mA		YES	80	Use TRIAC dimmer



The 12V AC Range Transformers



89109E | 20-105W



IP20



89110E | 35-105W



IP20



Order Code	Input	Power	Output	Class	Dimmable		Notes
89109E	230V	20-105W	12V AC		YES	10	Dimmer trailing edge
89110E	230V	35-105W	12V AC		YES	100	Dimmer leading & trailing edge

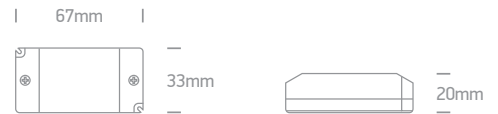
The 12V DC Range

Constant voltage

89008W | 8W | 12V DC



IP20



89015W | 15W | 12V DC



IP20



89030W | 30W | 12V DC



IP20



89075W | 75W | 12V DC



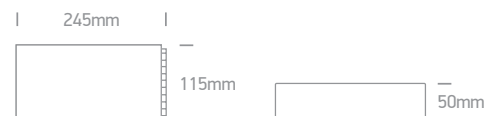
IP20



89200WN | 200W | 12V DC



IP20



Order Code	Input	Power	Output	Class	Dimmable		Notes
89008W	230V	8W	12V DC		NO	200	-
89015W	230V	15W	12V DC		NO	200	-
89030W	230V	30W	12V DC		NO	100	-
89075W	230V	75W	12V DC		NO	50	-
89200WN	230V	200W	12V DC		NO	48	-



The 24V DC Range

Constant voltage

89015V | 15W | 24V DC



IP20



89030V | 30W | 24V DC



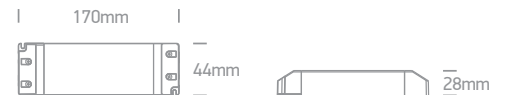
IP20



89060V | 60W | 24V DC



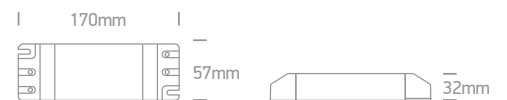
IP20



89075V | 75W | 24V DC



IP20



Order Code	Input	Power	Output	Class	Dimmable		Notes
89015V	230V	15W	24V DC	<input type="checkbox"/>	NO	100	-
89030V	230V	30W	24V DC	<input type="checkbox"/>	NO	100	-
89060V	230V	60W	24V DC	<input type="checkbox"/>	NO	50	-
89075V	230V	75W	24V DC	<input type="checkbox"/>	NO	25	-



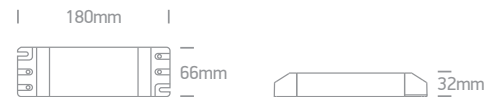
The 24V DC Range High Power Constant voltage



89100V | 100W | 24V DC



IP20



89150V | 150W | 24V DC



IP20

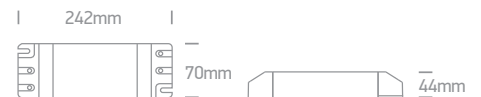


89200V | 200W | 24V DC



new

IP20



Order Code	Input	Power	Output	Class	Dimmable		Notes
89100V	230V	100W	24V DC		NO	20	-
89150V	230V	150W	24V DC		NO	25	-
89200V	230V	200W	24V DC		NO	20	-



89060WD

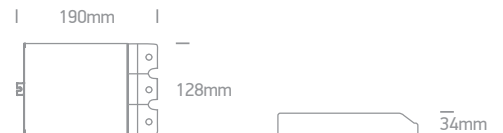
The 12V DC Dimmable Range

Constant voltage

89060WD | 3 Channels 20W each | 12V DC | 1-10V | Dimmable



IP20



Order Code	Input	Power	Output	Class	Dimmable		Notes
89060WD	230V	3x20W	12V DC		YES	18	Use 1-10V dimmer



The 24V DC Range TRIAC Dimmable Constant voltage

89040VT | 40W | 24V DC | TRIAC | Dimmable



new

IP20



89075VT | 75W | 24V DC | TRIAC | Dimmable



new

IP20



89100VT | 100W | 24V DC | TRIAC | Dimmable



new

IP20



Order Code	Input	Power	Output	Class	Dimmable		Notes
89040VT	230V	40W	24V DC		YES	50	Use TRIAC dimmer
89075VT	230V	75W	24V DC		YES	20	Use TRIAC dimmer
89100VT	230V	100W	24V DC		YES	20	Use TRIAC dimmer

The 24V DC Slim Range

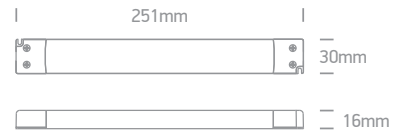
Constant voltage

89030VL | 30W | 24V DC

Suitable for LED profiles on page 246, 248, 249.



IP20

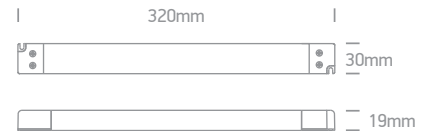


89060VL | 60W | 24V DC

Suitable for LED profiles on page 246, 248, 249.



IP20

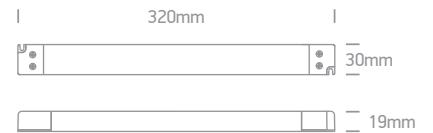


89075VL | 75W | 24V DC

Suitable for LED profiles on page 246, 248, 249.



IP20

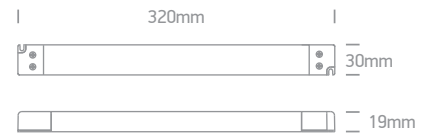


89100VL | 100W | 24V DC

Suitable for LED profiles on page 246, 248, 249.



IP20



89150VL | 150W | 24V DC

Suitable for LED profiles on page 246, 248, 249.



IP20



Order Code	Input	Power	Output	Class	Dimmable		Notes
89030VL	230V	30W	24V DC		NO	100	-
89060VL	230V	60W	24V DC		NO	50	-
89075VL	230V	75W	24V DC		NO	50	-
89100VL	230V	100W	24V DC		NO	50	-
89150VL	230V	150W	24V DC		NO	25	-



89100VLD

The 24V Slim Range Dimmable

Constant voltage

89060VLD | 60W | 24V DC | Push to DIM | Dimmable

Suitable for LED profiles on page 246, 248, 249.



new
IP20

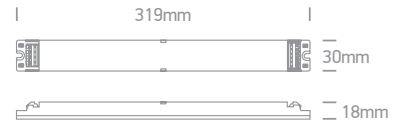


89100VLD | 100W | 24V DC | Push to DIM | Dimmable

Suitable for LED profiles on page 246, 248, 249.



new
IP20

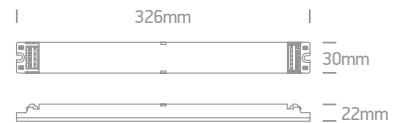


89150VLD | 150W | 24V DC | Push to DIM | Dimmable

Suitable for LED profiles on page 246, 248, 249.



new
IP20



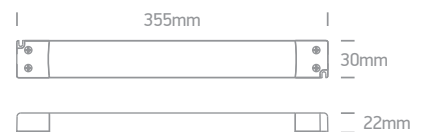
DALI Dimmable

89100VLL | 100W | 24V DC | DALI & Push to DIM | Dimmable

Suitable for LED profiles on page 246, 248, 249.



new
IP20



Order Code	Input	Power	Output	Class	Dimmable		Notes
89060VLD	230V	60W	24V DC	-	YES	50	Push to DIM
89100VLD	230V	100W	24V DC	-	YES	50	Push to DIM
89150VLD	230V	150W	24V DC	-	YES	50	Push to DIM
89100VLL	230V	100W	24V DC		YES	50	DALI & Push to DIM

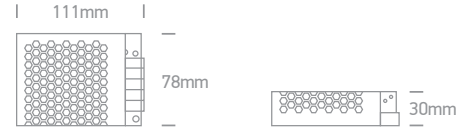
The 24V DC Open Range

Constant voltage

89060VN | 60W | 24V DC



IP20



89100VN | 100W | 24V DC



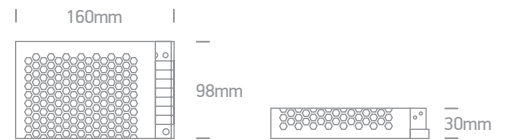
IP20



89150VN | 150W | 24V DC



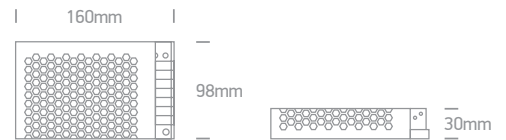
IP20



89200VN | 200W | 24V DC



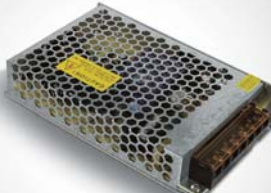
IP20



89350VN | 350W | 24V DC



IP20



Order Code	Input	Power	Output	Class	Dimmable		Notes
89060VN	100-240V	60W	24V DC		NO	120	-
89100VN	100-240V	100W	24V DC		NO	63	-
89150VN	100-240V	150W	24V DC		NO	48	-
89200VN	230V	200W	24V DC		NO	48	-
89350VN	230V	350W	24V DC		NO	36	-



89200VND

89100VND

The 24V Open Range Dimmable

Constant voltage



89100VND | 100W | 24V DC | TRIAC & 1-10V | Dimmable



new

IP20



89200VND | 200W | 24V DC | TRIAC & 1-10V | Dimmable



new

IP20



Order Code	Input	Power	Output	Class	Dimmable		Notes
89100VND	230V	100W	24V DC		YES	60	TRIAC & 1-10V
89200VND	230V	200W	24V DC		YES	40	TRIAC & 1-10V



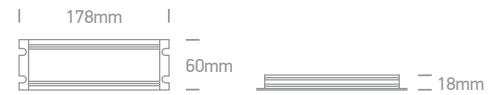
The 24V DC Waterproof IP67 Range

Constant voltage

89100VP | 100W | 24V DC



IP67



89150VP | 150W | 24V DC



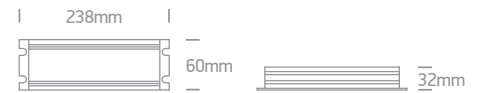
IP67



89200VP | 200W | 24V DC



IP67



Order Code	Input	Power	Output	Class	S	Dimmable		Notes
89100VP	100-240V	100W	24V DC		100cm	NO	36	-
89150VP	100-240V	150W	24V DC		100cm	NO	35	-
89200VP	100-240V	200W	24V DC		100cm	NO	32	-



The 24V DC Dimmable Range

Constant voltage



89030VD | 30W | 24V DC | Push to DIM & 1-10V | Dimmable



The 24V DC DALI Dimmable Range

Constant voltage



89075L | 75W | 24V DC | DALI, Push to DIM, 1-10V | Dimmable



Order Code	Input	Power	Output	Class	Dimmable		Notes
89030VD	230V	30W	24V DC		YES	20	Push to DIM & 1-10V
89075L	230V	75W	24V DC		YES	24	DALI, Push to DIM & 1-10V



89050D



89027D



89030D

Universal Push to DIM & 1-10V Dimmable Range



89027D | Push to DIM & 1-10V | Dimmable

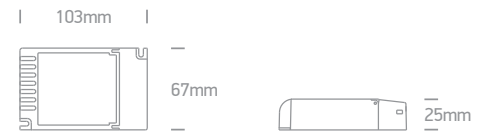
Adjustable output using DIP switches.



IP20

LED Current Selection

900mA	●	●	●	○	○	○
700mA	●	●	○	○	○	○
500mA	●	○	○	○	○	○
350mA	○	○	○	○	○	○
	1	2	3			



Output Current	350mA	500mA	700mA	900mA
Output Power	2-15W	3-20W	4-27W	6-24W



89030D | Push to DIM & 1-10V | Dimmable

Adjustable output using DIP switches.



IP20

LED Current Selection and Voltage Selection

24V	●	●	●	●	○	○	○
12V	○	○	○	○	○	○	○
700mA	●	●	○	○	○	○	○
600mA	○	○	○	○	○	○	○
550mA	○	○	○	○	○	○	○
500mA	○	○	○	○	○	○	○
450mA	○	○	○	○	○	○	○
400mA	○	○	○	○	○	○	○
350mA	○	○	○	○	○	○	○
250mA	○	○	○	○	○	○	○
	1	2	3	4	5		



Output Current / Voltage	250mA	350mA	400mA	450mA	500mA	550mA	600mA	700mA	12V DC	24V DC
Output Power	1,5-15W	2-20W	2,5-22W	2,7-24W	3-27W	3,3-29W	3,6-30W	4,2-30W	8W	16W



89050D | Push to DIM & 1-10V | Dimmable

Adjustable output using DIP switches.



IP20

LED Current Selection

1050mA	●	●	●	●	○	○	○
900mA	●	●	○	○	○	○	○
800mA	○	○	○	○	○	○	○
700mA	○	○	○	○	○	○	○
650mA	○	○	○	○	○	○	○
600mA	○	○	○	○	○	○	○
550mA	○	○	○	○	○	○	○
500mA	○	○	○	○	○	○	○
350mA	○	○	○	○	○	○	○
	1	2	3	4	5		



Output Current	350mA	500mA	550mA	600mA	650mA	700mA	800mA	900mA	1050mA
Output Power	4-25W	5-36W	6-40W	6-43W	7-47W	7-50W	8-50W	9-50W	11-50W

Order Code	Input	Power	Output	Class	Dimmable		Notes
89027D	230V	Refer to table	Adjustable		YES	40	Push to DIM & 1-10V
89030D	230V	Refer to table	Adjustable		YES	40	Push to DIM & 1-10V
89050D	230V	Refer to table	Adjustable		YES	20	Push to DIM & 1-10V

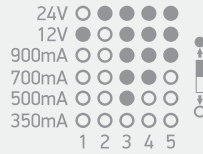


89020L | DALI & Push to DIM | Dimmable

Adjustable output using DIP switches.



LED Current Selection and Voltage Selection



IP20

Output Current / Voltage	350mA	500mA	700mA	900mA	12V DC	24V DC
Output Power (Max.)	3,2-15W	4,5-20W	6,3-20W	8,1-20W	10W	20W

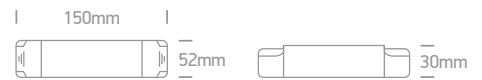
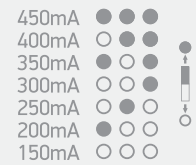


89025L | DALI & Push to DIM | Dimmable

Adjustable output using DIP switches.



LED Current Selection



new
IP20

Output Current / Voltage	150mA	200mA	250mA	300mA	350mA	400mA	450mA
Output Power (Max.)	1-8,4W	1,2-11,2W	1,5-14W	1,8-16,8W	2,1-19,6W	2,4-22,4W	2,7-25,2W

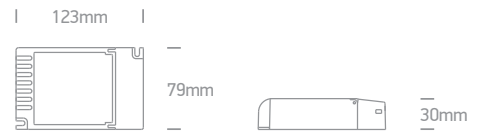
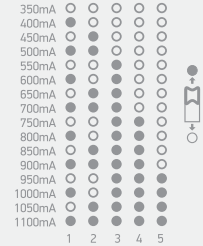


89045L | DALI, Push to DIM, 1-10V | Dimmable

Adjustable output using DIP switches.



LED Current Selection



IP20

Output Current	350mA	400mA	450mA	500mA	550mA	600mA	650mA	700mA	750mA	800mA	850mA	900mA	950mA	1000mA	1050mA	1100mA
Output Power	4-20W	5-23W	6-26W	6-29W	7-32W	7-35W	8-38W	9-40W	9-42W	10-45W	10-45W	10-45W	11-45W	12-45W	13-45W	13-45W

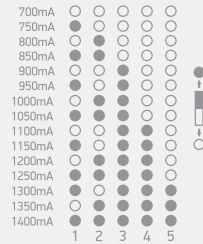


89050L | DALI, Push to DIM, 1-10V | Dimmable

Adjustable output using DIP switches.



LED Current Selection



IP20

Output Current	700mA	750mA	800mA	850mA	900mA	950mA	1000mA	1050mA	1100mA	1150mA	1200mA	1250mA	1300mA	1350mA	1400mA
Output Power	8,4-40W	9-43,5W	9,6-46,5W	10,2-49W	10,8-50W	11,4-50W	12-50W	12,6-50W	13,2-50W	13,8-50W	14,4-50W	15-50W	15,6-50W	16,2-50W	16,8-50W

Order Code	Input	Power	Output	Class	Dimmable		Notes
89020L	230V	Refer to table	Adjustable		YES	40	DALI & Push to DIM
89025L	230V	Refer to table	Adjustable		YES	40	DALI & Push to DIM
89045L	230V	Refer to table	Adjustable		YES	30	DALI, Push to DIM, 1-10V
89050L	230V	Refer to table	Adjustable		YES	24	DALI, Push to DIM, 1-10V