

PRODUCT DATASHEET

LED VAL 20/220-240/500

LED DRIVER VALUE | Constant current LED driver with dedicated current



AREAS OF APPLICATION

- Suitable for LED luminaires and LED modules
- Applicable for luminaires of protection classes I and II
- For indoor SELV installations
- Offices, shopping centers, hospitals, restaurants, hotels

PRODUCT BENEFITS

- Suitable for operation with many discrete LED and COB LED
- Excellent price/performance ratio
- Quick and simple installation
- High efficiency and reliability

PRODUCT FEATURES

- Series available in 10W, 12W, 14W, 20W, 28W, 36W, 40W, 42W
- Lifetime: up to 30.000 h (at max. tc temperature), up to 50.000 h (at tc: max tc -10°C temperature)
- Type of protection: IP20
- Dedicated, constant output current
- Supply voltage: 220...240 V
- Operating frequency: 50/60 Hz
- Operated with less than 60 V: Safety extra-low voltage (SELV)
- Short-circuit and overload protection

TECHNICAL DATA

Electrical data

Nominal voltage	220...240 V
Nominal frequency	50/60 Hz
AC voltage range	198...264 V (Permitted voltage range)
Maximum voltage	275V (2hrs)
Max input current	120mA (230V 50 Hz @ full load)
Total Harmonic Distortion (THD)	<10% (Full load, 230 V, 50 Hz / see graphs)
Power factor	≥0.9 (Full load, 230 V, 50 Hz / see graphs)
Efficiency	≥84% (Full load, 230 V, 50 Hz/ see graphs(Stable state))
No-load power	< 0.5W (at 230V input)
Power loss	≤4.5W (at 230V input full loading)
Max input power	25W (at 230V input full loading)
Protection class	II (Suitable for class II)
Inrush current	<10A (twidth= 180 μs typical (measured at 50% Ipeak))
Max. units per circuit breaker	depends on breaker brand and type
Touch current	<0.7mA (Output floating)
Started Delay Time	<1s
Nominal voltage range	25-40V _{DC}
Maximum voltage	50V _{DC}
Nominal current range	500mA
Current accuracy	+/-5%
Current ripple	30% ((I _{max} - I _{min}) / (I _{max} + I _{min}) *100% Max.Load)
Nominal power range	11.9-21.0W (Partial Load)
Maximum Power	21W (Partial Load)
Galvanic isolation	SELV (3,75 kVrms Output to input - Touch current < 5mA)
Ambient temperature range t _a	-20 ...+45°C (Refer to Table 1 for details)
Maximum case temperature t _c	80°C (Measured on t _c point indicated of the product label)
Max. case temp. in fault condition	110°C
Storage temperature range	-25...+80°C (Cool down before operating)
Relative humidity	5 ... 80%
Surge transient protection	1 1 kV (L/N acc. IEC 61000-3-2 (ANSI C62.41 Cat.A ...))
Environmental rating	Indoor
IP rating	IP20
Dimming	-
Inrush current I _{peak}	6.5A (Input voltage 230v)
Inrush current T _{width}	45us (Input voltage 230V,measured at 50% Ipeak)

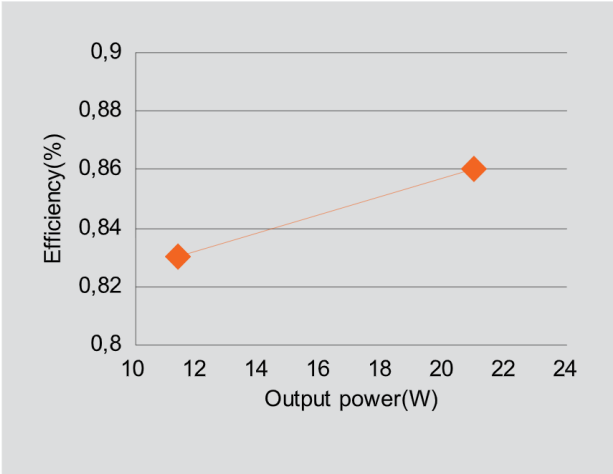
Lifespan

Lifetime	30.000hrs (t _a = 45°C ,t _c =80, max 10% failure rate) 50.000hrs (t _a = 45°C ,t _c =70, max 10% failure rate)
Mains switching cycles	>100 000

TECHNICAL DATA

Graphs

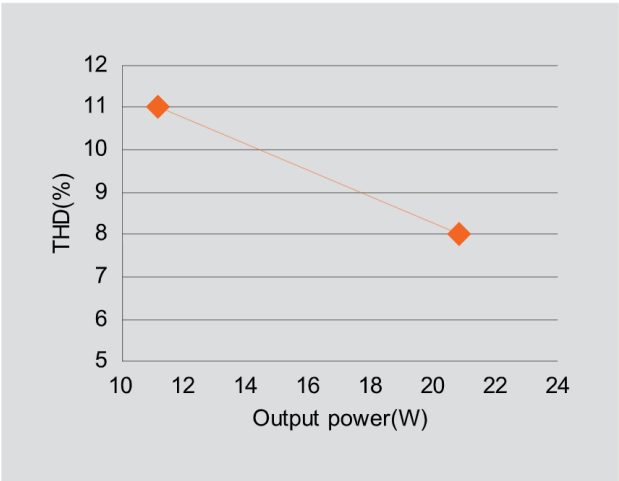
20W
EFFICIENCY



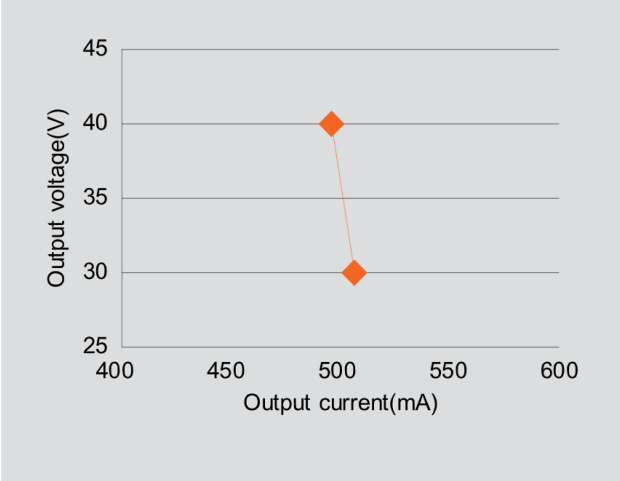
20W
POWER FACTOR



20W
THD



20W
TYPICAL OPERATING WINDOW

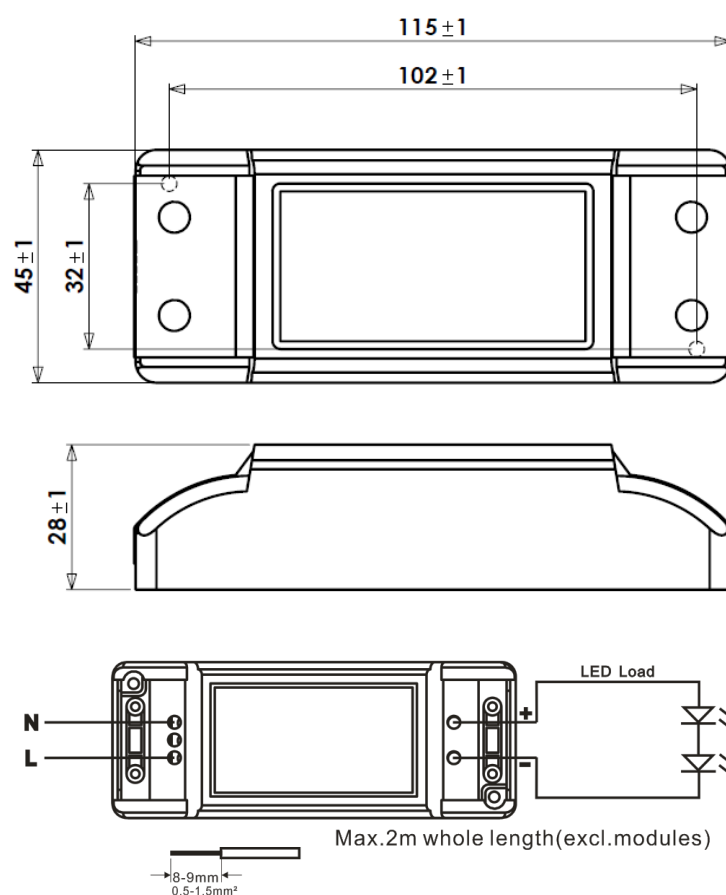


Certificates & standards

Approval marks – approval	CE, ENEC, RoHS
Standards	IEC 61347-1, IEC 61347-2-13, IEC 62384, CISPR 15, IEC 61000-3-2, IEC 61000-3-3, IEC 61547
Protection class	II
Type of protection	IP20

Dimensions

Length	115.0 mm
Width	45.0 mm
Height	28.0 mm



LOGISTICAL DATA

Product code	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Gross weight	Volume
4058075614918	Folding carton box 1			
4058075614925	Shipping carton box 200	375 mm x 230 mm x 285 mm	13509.00 g	24.58 dm³

The mentioned product code describes the smallest quantity unit which can be ordered. One shipping unit can contain one or more single products. When placing an order, for the quantity please enter single or multiples of a shipping unit.

REFERENCES / LINKS

For Guarantee see

▶ www.ledvance.com/guarantee

DISCLAIMER

Subject to change without notice. Errors and omission excepted. Always make sure to use the most recent release.