

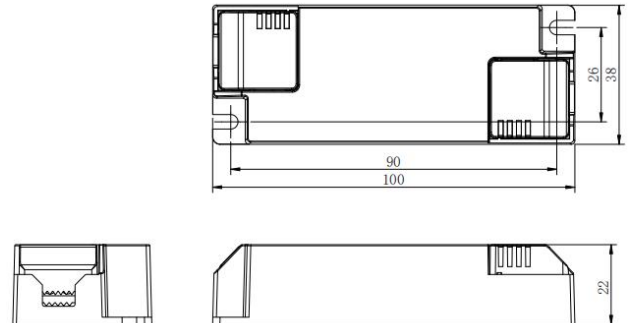


## SWITCH TO BRIGHTER FUTURE

### Product data sheet: V9 Series

#### Features

- Super compact design
- Best value for money if application with narrow output voltage range is acceptable
- Driver is suitable for built-in or independent installation
- Push-in wire terminal for easy install of input cable
- Suitable for protection class I and II luminaires
- High power factor
- Low ripple current, flicker-free
- Protections: over load, over-heat, short circuit
- SELV equivalent
- Protection class II
- Nominal life-time up to 50,000 h
- 5-year guarantee



#### Applications

- Office
- Shop
- Hospitality
- Public areas

#### Approbations & Certifications

CE, ENEC, Nemko, RCM, CCC

#### Housing properties

- Housing material: plastic, white.
- Type of protection IP20

## Electrical Specifications

Type		Unit	V9-7-160	V6-8-180	V9-10-240	V9-11-250	V9-11-260	V9-13-300	V9-15-350	V9-21-500	
<b>INPUT</b>	Nominal voltage	V	220 – 240								
	Nominal frequency	Hz	50 / 60								
	AC voltage range	V	198 – 264								
	DC voltage range	V	280-375								
	Nominal current	A	0.05	0.06	0.07	0.08	0.09	0.11	0.14		
	THD (Full load)	%	50								
	Power factor (Full load)		0.90C								
	Efficiency (Full load)	%	84		85			86			
	NO load	W	≤ 0.3								
	Protection class		II								
	Inrush current(Cold start)	A pk	15(th = 200 μs)								
	<b>OUTPUT</b>	Max.units per circuit breaker		B16: 27 B10: 17							
Nominal voltage range		V	30-42								
Maximum voltage(Open Circuit)		Vdc	≤ 57					≤ 54			
Nominal current		mA	160	180	240	250	260	300	350	500	
Current accuracy		%	+/- 5								
Current ripple ≤120Hz		%	≤ 8								
Pst LM			≤ 1								
SVM			≤ 0.4								
Nominal power range		W	5.1 – 7	5.4-8	7.2-10	7.5-10.5	7.8 – 11	9-13	10.5-15	15-21	
Maximum power		W	7	8	10	10.5	11	13	15	21	
Galvanic isolation			SELV								
<b>ENVIRONMENT</b>		Ambient temperature range ta	°C	-20 ...+50							
	Maximum case temperature tc	°C	80								
	Max. Case temp. In fault condition	°C	110								
	Storage temperature range	°C	-20 ...+70								
	Relative humidity	%	5 ... 85 (Not condensing)								
	Surge transient protection	kV	1   2 (L/N   LN/PE acc to. EN 61547 Clause 5.7)								
	Environmental rating		Indoor								
	IP rating		IP 20								
	Mains switching cycles		> 100,000								
	Expected lifetime	h	50,000 (0.2% / 1'000 h failure rate)								

\*All parameters NOT specially mentioned are measured at 230VAC input ,rated current and 25°C of ambient temperature

### Protections

#### Over temperature

Yes

#### Over load

Yes

#### No load

Yes

#### Short-circuit

Yes

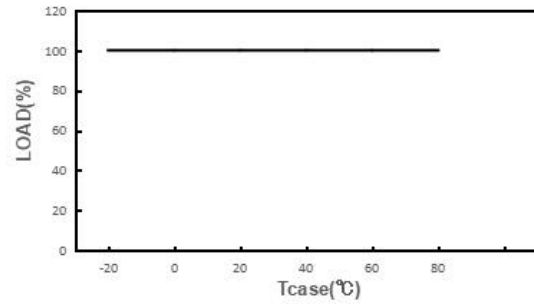
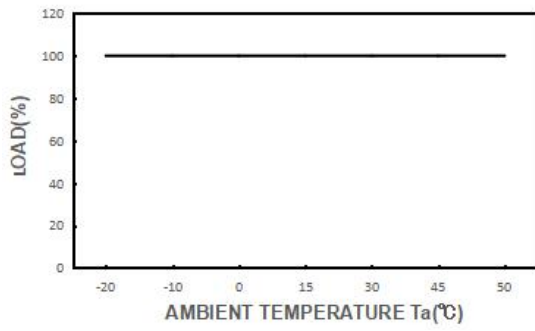
#### Input overvoltage

Maximum allowed input voltage 264V AC

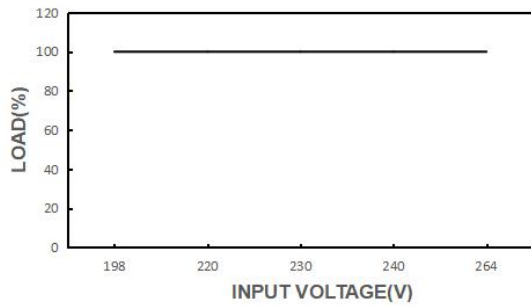
#### Output overvoltage

Yes, Limitation of Output voltage ≤ 57V

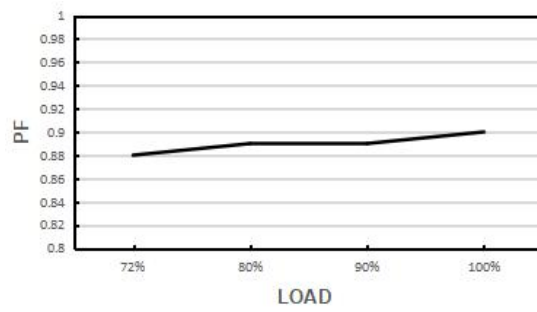
### OUTPUT LOAD vs TEMPERATURE



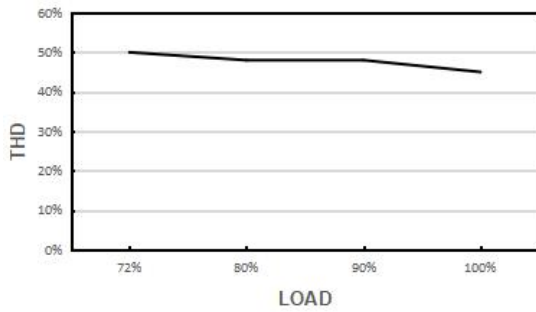
### STATIC CHARACTERISTIC



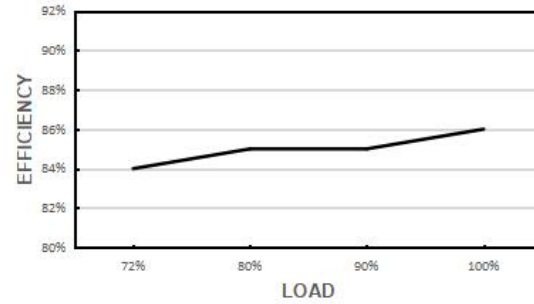
### POWER FACTOR (PF) CHARACTERISTIC



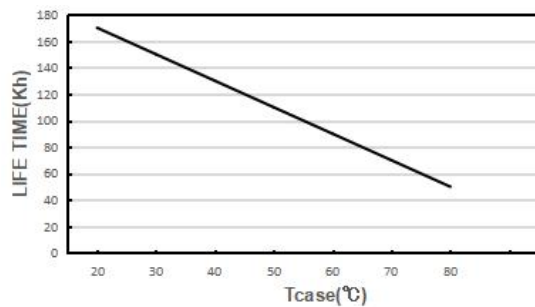
### TOTAL HARMONIC DISTORTION (THD)



### EFFICIENCY vs LOAD



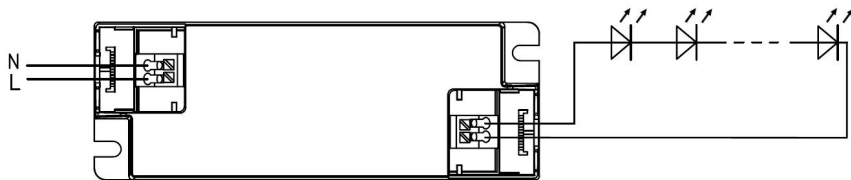
### LIFE TIME



\*The graph is for reference only, and the detailed values refer to the parameter table

## Wiring Diagram

Terminal:	Push in terminals
Max. cable length - system:	2 m
Dimensions(LxWxH):	100 x 38 x 22 mm
Weight:	45 g



For build-in S: 0.5-0.75mm<sup>2</sup>, for independent S: 0.75mm<sup>2</sup>

Hot plug-in or secondary switching of LEDs is not permitted and may cause a very high current to the LEDs.

## Remarks

-**Touch current:** lower than 0.7 mA, according to EN 60598-1 annex. G and EN 61347-1 annex A

## Standards

EN 61347-1  
EN 61347-2-13  
EN 62384  
EN 55015  
EN 61000-3-2  
EN 61000-3-3  
EN 61547  
EN 60598-1  
IEE1789  
(EU) 2019/2020

## Manufacturer's address:

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[www.actec.com](http://www.actec.com)