

AVQ-ST160-A

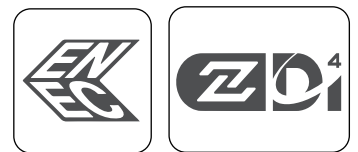
LED Street Light

5 YEAR
WARRANTY



Areas of application

- Urban roads -
- Express roads -
- Town roads -
- Residential area roads -
- Pedestrian crossings -
- Parking areas -



Product Benefits

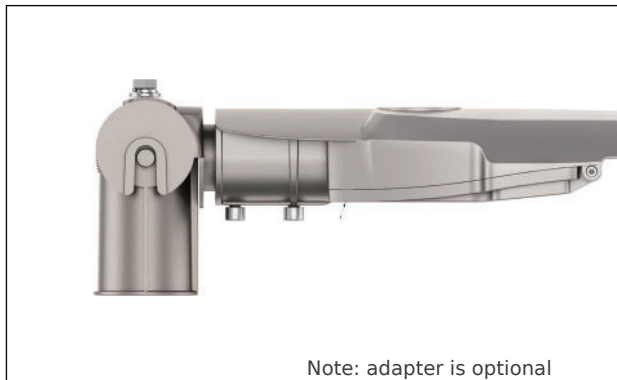
- 70% energy savings with a short ROI period
- Up to 100,000 h @ L70, with low maintenance cost
- World-class, certified quality components (LEDs, drivers, etc.)
- Smooth fixture back designed to prevent dust accumulation
- Tool-less opening of the driver box for easier maintenance
- 5-year warranty

Product Features

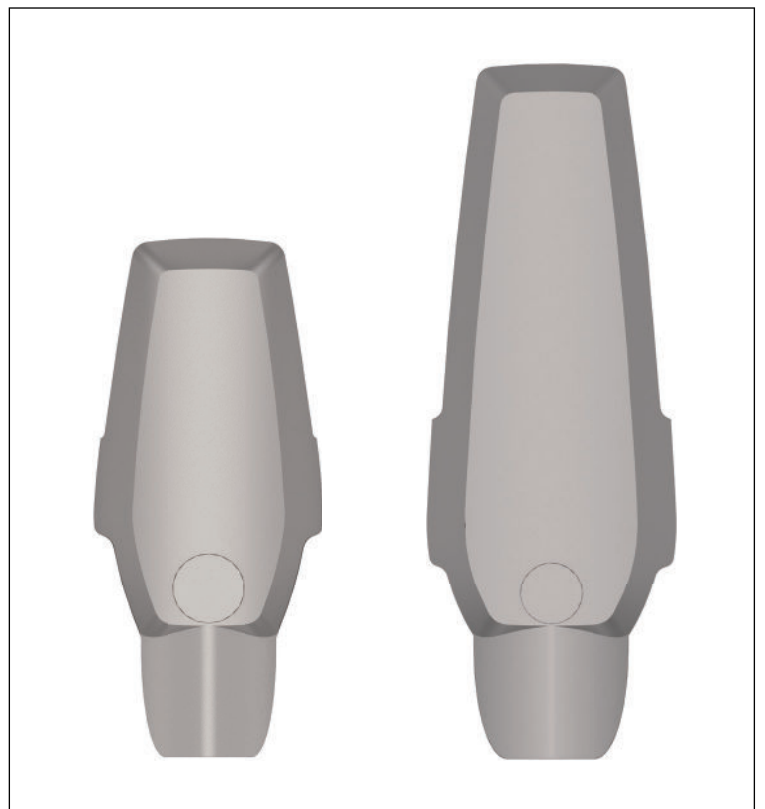
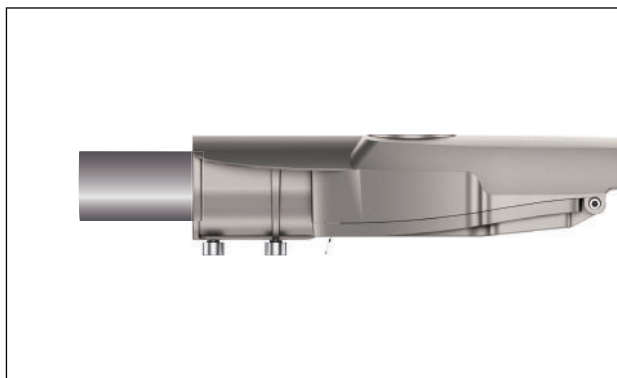
- Luminaire efficacy: up to 199 lm/W
- Lifetime: more than 100,000 hours
- Impact resistance: IK09 / IK10
- Protection rating: IP66



PRODUCT OVERVIEW



Note: adapter is optional



PRODUCT DATASHEET

Model	ARVENQ model	Power (W)	3030 Version		5050 Version		Ultra Version	
			Efficiency (lm/W)	Lumen (lm)	Efficiency (lm/W)	Lumen (lm)	Efficiency (lm/W)	Lumen (lm)
Version S	AVQ-ST160-A	20	155	3100	165	3300	177	3540
	AVQ-ST160-A	20	175	3500	180	3600	189	3780
	AVQ-ST160-A	30	155	4650	170	5100	185	5550
	AVQ-ST160-A	30	175	5250	175	5250	194	5820
	AVQ-ST160-A	40	155	6200	165	6600	190	7600
	AVQ-ST160-A	40	170	6800	175	7000	195	7800
	AVQ-ST160-A	50	155	7750	165	8250	189	9450
	AVQ-ST160-A	50	165	8250	175	8750	194	9700
	AVQ-ST160-A	60	155	9300	165	9900	190	11400
	AVQ-ST160-A	80	155	12400	165	13200	186	14880
Version M	AVQ-ST160-A	90	160	14400	175	15750	192	17280
	AVQ-ST160-A	90	175	15750	180	16200	199	17910
	AVQ-ST160-A	100	160	16000	175	17500	195	19500
	AVQ-ST160-A	100	175	17500	180	18000	199	19900
	AVQ-ST160-A	120	160	19200	175	21000	195	23400
	AVQ-ST160-A	150	160	24000	175	26250	192	28800
	AVQ-ST160-A	160	160	25600	170	27200	192	30720

- Values are calculated for products with CCT above 4000 K and CRI 70. For CCT below 4000 K or CRI above 75, values are approximately 5% lower.

- Values shown are subject to a +/-5% tolerance.

- Models marked with an asterisk (*) denote high-efficiency versions.

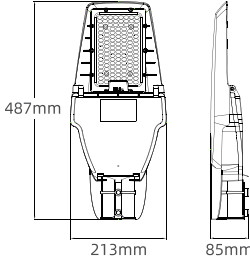
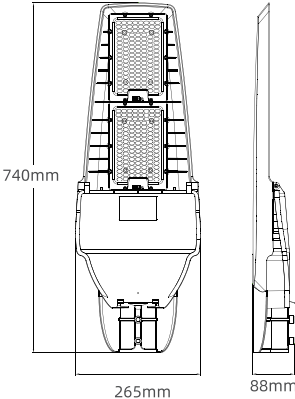
Electrical Data:

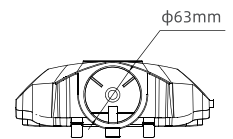
Nominal voltage	AC 100-240 V / 277 V 50 / 60 Hz
LED	Lumileds / other brands on request
Driver	Inventronics / other brands on request
Power factor (PF)	>0.95
THD	<15
SPD	10 kV (default) / 20 kV (available on request)
Optics	Type II
CRI	Ra>70 (default) / Ra>80
CCT	1800 K, 2200 K, 2700 K, 3000 K, 4000 K, 5000 K, 5700 K, 6500 K

General Data

Body material	High-pressure die-cast aluminum
Housing color	Gray RAL9007 (default) / other colors on request
Cover material	UV-resistant polycarbonate
Working environment	-40 °C to +50 °C, 10%-90% RH
Lifespan L70 at 25 °C	>100,000 h
Mounting type	Side-entry pole mounted
Pole diameter	50-60 mm (suggested)
Dimmable	1-10 V dimming (default) / timer dimming / DALI dimming
Protection class	Class I (default) / Class II
Certifications & standards	CE, RoHS, ENEC, CB, LM79, LM80, TM-21, IP66, IK09, IEC62471, IEC60068-2-6, IEC61643-11, Zhaga-D4i
Available on request	NEMA socket (3/5/7 pins), ZHAGA socket, short cap, photocell, NTC, OLC, solar compatible, DALI dimming, smart controller

PRODUCT DATASHEET

Model	Picture	Dimension
Version S		
Version M		



Fixture Information

Version	Dimension	Weight
S	487 x 213 x 85mm	2.9kgs
M	740 x 265 x 88mm	4.6kgs

Package Information

Version	Dimension	Weight
S	510 x 230 x 140mm	3.4kgs
M	760 x 280 x 140mm	5.2kgs

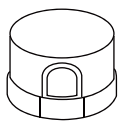


PRODUCT DATASHEET

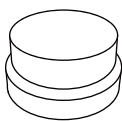
Structure Drawing:



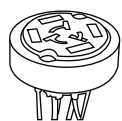
Optional accessories



Photocell



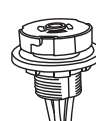
Shorting Cap



NEMA Socket
(3 / 5 / 7 pin)



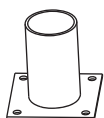
Smart Controller



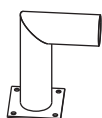
ZHAGA Socket



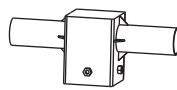
"60-40 mm"



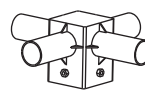
"T" Type



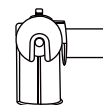
"L" Type



"2 in 1"



"4 in 1"

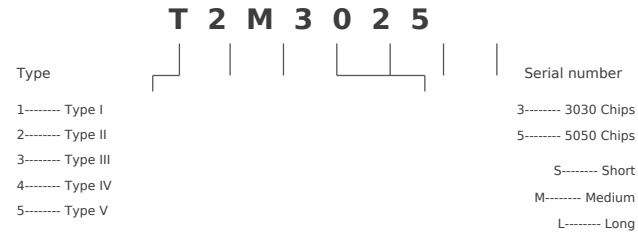


"60-60 mm"
"60-80 mm"

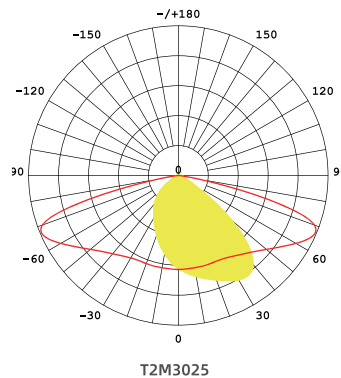
PRODUCT DATASHEET

Light Distributions

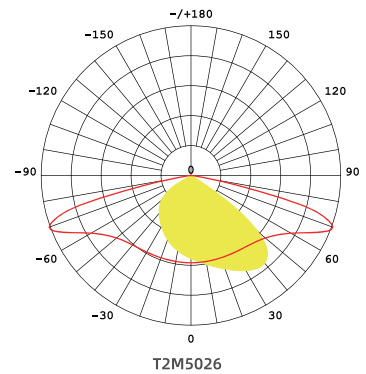
Order reference



3030 Version



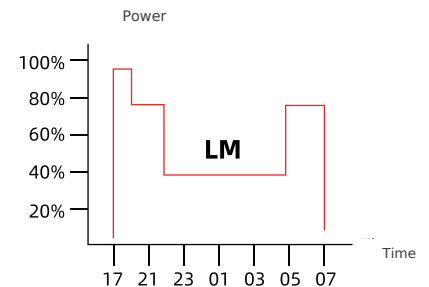
5050 Version



Control Systems

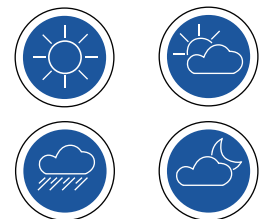
Custom Dimming Profile

Intelligent luminaire drivers can be programmed to follow complex dimming profiles, allowing customized combinations of time intervals and light levels without extra wiring. The period during which the lights are switched on until they are switched off is used to implement the preset dimming profile. This system maximizes energy savings while maintaining the required lighting uniformity throughout the night.



Daylight Sensor / Photocell

Photocell or daylight sensors activate the luminaire when natural light drops below a certain level. They can be programmed to switch on during storms, on cloudy days (in critical areas), or only at dusk to ensure safety and comfort in public spaces.



Smart Control System

Luminaire Controller Zhaga (optional):

This easy-to-install wireless device is designed for remote control of LED luminaires. It is equipped with Zhaga-compliant connectors and can control luminaires via DALI 2.0 or D4i interfaces. Now supporting LoRaWAN®, ZIGBEE and 4G networks, the controller's modern and compact design is ideal for a variety of street-lighting situations.

Luminaire Controller NEMA (optional):

The Luminaire Controller NEMA is a remote LED luminaire control device compatible with ANSI C136.41 NEMA sockets. It can operate fixtures via DALI or 0-10 V analog control interfaces and supports LoRaWAN®, ZIGBEE and 4G networks. This controller provides a reliable power connection via three rugged twist-lock contacts.



A sensor mounting position is reserved on the top to facilitate future installations