

# STAR 50 Industrial



## Features:

- Constant Current mode output
- Built-in active PFC function
- Efficiency up to 91 %
- Low output ripple & noise
- Wide operating temperature range
- Suitable for use in Class I and Class II luminaires
- Open circuit protection
- Over temperature protection
- Over voltage protection
- Surge protection 1 kV L-N, 2 kV L, N-PE
- Fast transient protection 4 kV



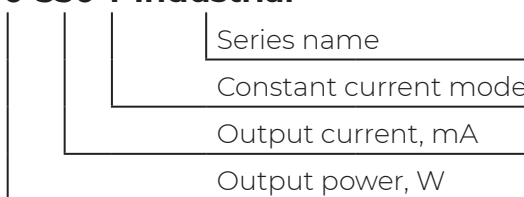
## Description

Star 50 Industrial series was designed for applicable in a wide range of industrial, street and garden LED luminaires. Star 50 Industrial series operates with power network 176-264 VAC and have IP rating 67. The power supplies Star 50-350T Industrial with output current 350 mA respectively available at this moment.

The main advantages of Star 50 Industrial are: power factor up to 0,98; efficiency up to 91 %; low output ripple and noise; extended temperature range from - 40 to + 50 °C without derating; compliance with EMC and Safety standards; open circuit protection, over temperature protection, over voltage protection.

## Model Encoding

### STAR 50-350 T Industrial



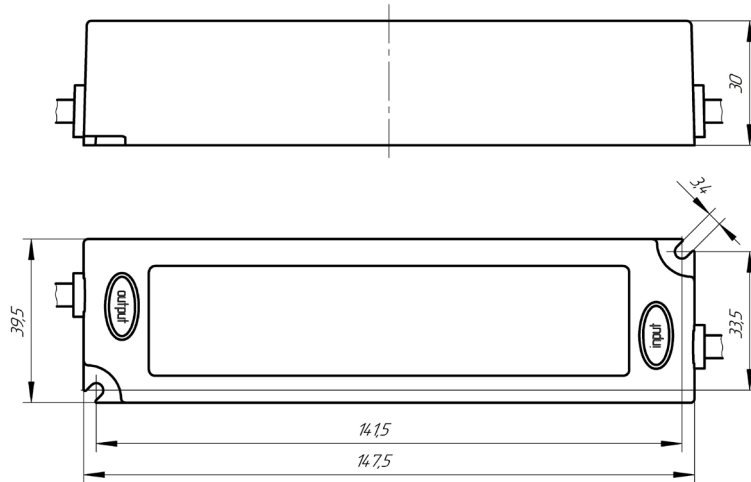
## SPECIFICATION

	Model Name	Star 50-350T Industrial
OUTPUT	RATED CURRENT	350 mA
	CONSTANT CURRENT REGION	70-140 V
	OPEN CIRCUIT VOLTAGE	158 V
	RATED POWER	50 W
	CURRENT RIPPLE	< 3,5 mA
	CURRENT TOLERANCE	±5 %
	SET UP TIME	0,5-1 s
INPUT	VOLTAGE RANGE	176-264 VAC
	FREQUENCY RANGE	50/60 Hz
	AC CURRENT	0,3 A @ 220 VAC
	NO LOAD / STANDBY POWER CONSUMPTION	< 1 W
	INRUSH CURRENT	8 A @ 220 VAC
	POWER FACTOR	0,98 @ 50 % load
	TOTAL HARMONIC DISTORTION	≤ 15 %
	EFFICIENCY	91 %
PROTECTION	LEAKAGE CURRENT	< 0,3 mA
	OPEN CIRCUIT	Yes
	OVER VOLTAGE	Yes
	OVER TEMPERATURE	Yes
ENVIRONMENT	IP RATING	IP67
	WORKING TEMPERATURE	-40...+50 °C
	STORAGE TEMPERATURE	-45...+40 °C
	WORKING HUMIDITY	≤ 95 %, RH non-condensing
SAFETY & EMC	VIBRATION	10 ~ 500 Hz, 5G 12 min./1cycle, period for 72min. each along X, Y, Z axes
	SAFETY STANDARDS	UL8750
	WITHSTAND VOLTAGE (I/P-O/P, I/P-PE, O/P-PE)	> 1,5 kV AC
	ISOLATION RESISTANCE	> 200 M Ohms
OTHERS	EMC	EN 61000-3-2, 3; EN55015 EN 61000-4-2, 3, 4, 5, 6, 8, 11
	LIFE TIME	50 000 Hours
	DIMENSION	148 x 40 x 30 mm
	WEIGHT	0,3 kg
	PACKING	455 x 225 x 165 mm, 30 pcs., 9,8 kg

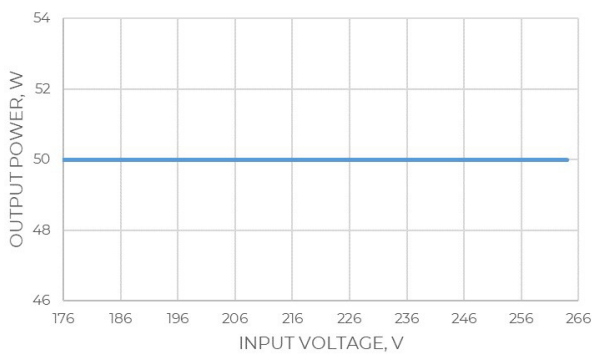
### NOTE:

All parameters were measured at power network 220 VAC, rated current and 25 °C of ambient temperature Measurement accuracy 3 - 5 %.

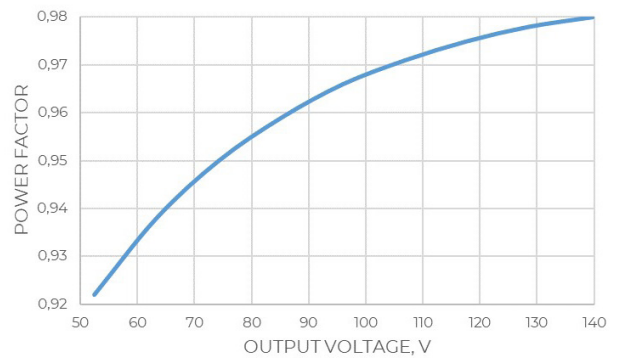
# MECHANICAL SPECIFICATION



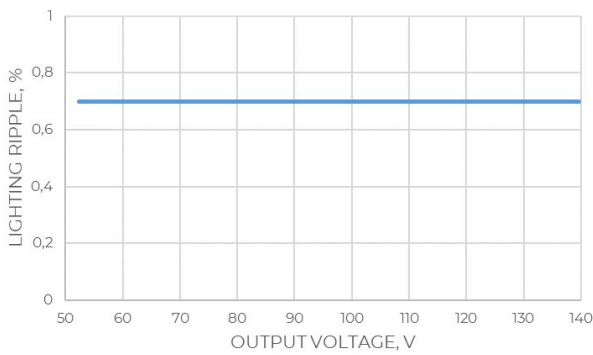
**STATIC CHARACTERISTIC**



**POWER FACTOR**



**LIGHTING RIPPLE**



**EFFICIENCY vs OUTPUT VOLTAGE**

