

STAR 100 Industrial



Features:

- Constant Current mode output
- Built-in active PFC function
- Efficiency up to 90,5 %
- Low output ripple & noise
- Wide operating temperature range
- Suitable for use in Class I luminaires
- Open & short circuit protection
- Over temperature protection
- Over voltage protection
- Surge protection 1 kV L-N, 2 kV L, N-PE
- Fast transient protection 4 kV



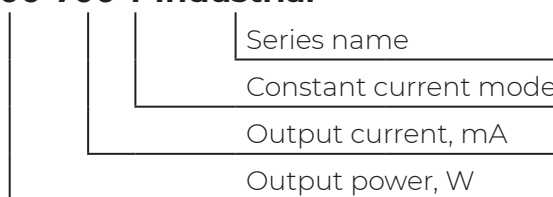
Description

Star 100 Industrial series was designed for applicable in a wide range of industrial, street and garden LED luminaires. Star 100 Industrial series operates with power network 176-264 VAC and have IP rating 67. The power supplies Star 100-700T Industrial with output current 700 mA respectively available at this moment.

The main advantages of Star 100 Industrial are: power factor up to 0,98; efficiency up to 90,5 %; low output ripple and noise; extended temperature range from - 40 to + 50 °C without derating; compliance with EMC and Safety standards; open and short circuit protection, over temperature protection, over voltage protection.

Model Encoding

STAR 100-700 T Industrial



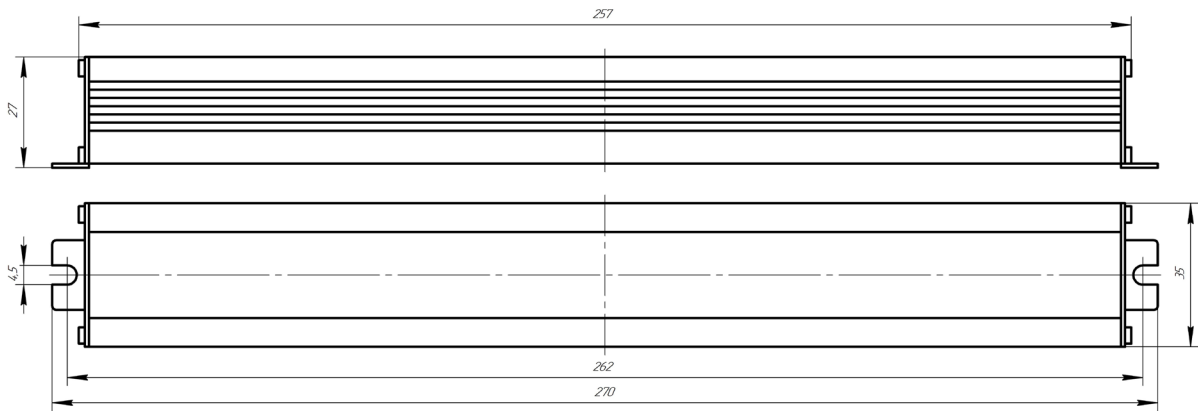
SPECIFICATION

	Model Name	Star 100-700T Industrial
OUTPUT	RATED CURRENT	700 mA
	CONSTANT CURRENT REGION	70-140 V
	OPEN CIRCUIT VOLTAGE	162 V
	RATED POWER	100 W
	CURRENT RIPPLE	< 7 mA
	CURRENT TOLERANCE	±5 %
	SET UP TIME	0,5-1 s
INPUT	VOLTAGE RANGE	176-264 VAC
	FREQUENCY RANGE	50/60 Hz
	AC CURRENT	0,5 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	≤ 20 %
	EFFICIENCY	90,5 %
	LEAKAGE CURRENT	< 0,3 mA
PROTECTION	OPEN CIRCUIT	Yes
	SHORT CIRCUIT	Yes
	OVER VOLTAGE	Yes
	OVER TEMPERATURE	Yes
	IP RATING	IP67
ENVIRONMENT	WORKING TEMPERATURE	-40...+50 °C
	STORAGE TEMPERATURE	-45...+40 °C
	WORKING HUMIDITY	≤ 95 %, RH non-condensing
	VIBRATION	10 ~ 500 Hz, 5G 12 min./1cycle, period for 72min. each along X, Y, Z axes
SAFETY & EMC	SAFETY STANDARDS	UL8750
	WITHSTAND VOLTAGE (I/P-O/P, I/P-PE, O/P-PE)	> 1,5 kV AC
	ISOLATION RESISTANCE	> 200 M Ohms
	EMC	EN 61000-3-2, 3; EN55015 EN 61000-4-2, 3, 4, 5, 6, 8, 11
OTHERS	LIFE TIME	50 000 Hours
	DIMENSION	270 x 35 x 27 mm
	WEIGHT	0,42 kg
	PACKING	405 x 315 x 160 mm, 30 pcs., 13,5 kg

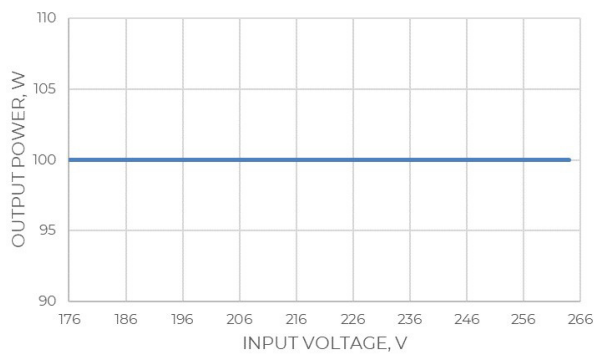
NOTE:

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

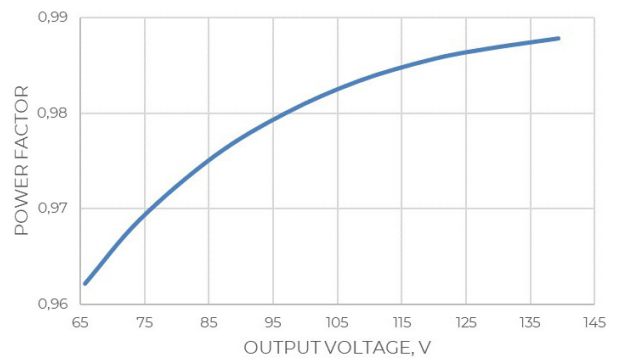
MECHANICAL SPECIFICATION



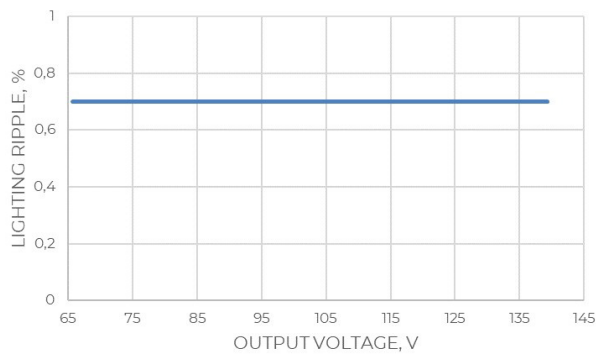
STATIC CHARACTERISTIC



POWER FACTOR



LIGHTING RIPPLE



EFFICIENCY vs OUTPUT VOLTAGE

