

STAR 50 Lite



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 & 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



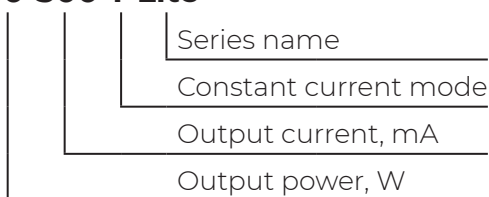
Description

Star 50 Lite series was designed for applicable in a wide range of indoor LED luminaires with the highest cost efficiency. Star 50 Lite series operates with power network 176-264 VAC and have IP rating 20. The power supplies Star 50-300T Lite and Star 50-350T Lite with output current 300 mA and 350 mA respectively available at this moment.

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

Model Encoding

STAR 50-300 T Lite



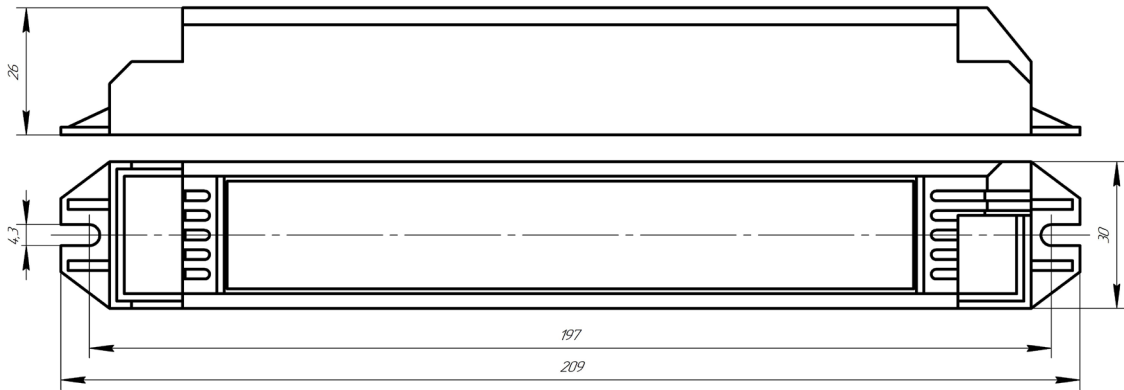
SPECIFICATION

Model Name		Star 50-300T Lite	Star 50-350T Lite
OUTPUT	RATED CURRENT	300 mA	350 mA
	CONSTANT CURRENT REGION	86-166 V	70-140 V
	OPEN CIRCUIT VOLTAGE	187 V	153 V
	RATED POWER	50 W	
	CURRENT RIPPLE	< 3 mA	< 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 %	90 %
PROTECTION	LEAKAGE CURRENT	< 0,3 mA	
	OPEN CIRCUIT	Yes	
	SHORT CIRCUIT (c production run 0320)	Yes	
	OVER VOLTAGE	Yes	
	OVER TEMPERATURE	Yes	
ENVIRONMENT	IP RATING	IP20	
	WORKING TEMPERATURE	-40...+40 °C	
	STORAGE TEMPERATURE	-45...+40 °C	
	WORKING HUMIDITY	≤ 95 %, RH non-condensing	
SAFETY & EMC	VIBRATION	10 ~ 500 Hz, 5G 12 min./cycle, 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	209 x 30 x 26 mm	
	WEIGHT	0,11 kg	
	PACKING	335 x 250 x 320 mm, 80 pcs., 9,8 kg	

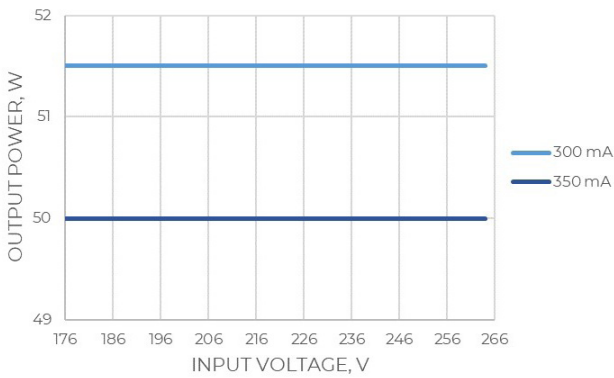
NOTE:

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

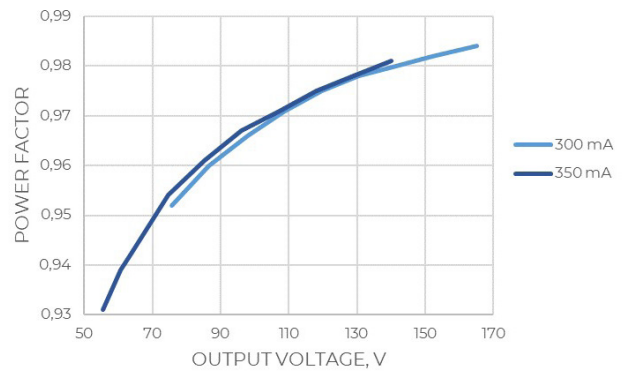
MECHANICAL SPECIFICATION



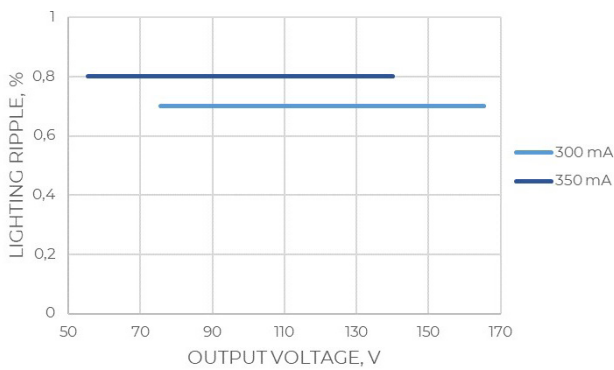
STATIC CHARACTERISTIC



POWER FACTOR



LIGHTING RIPPLE



EFFICIENCY vs OUTPUT VOLTAGE

