

STAR 40 Elegant



Features:

- Constant Current mode output
- DIP - SWITCH
- Built-in active PFC function
- Efficiency up to 88 %
- Low output ripple & noise
- Control interface DALI
- Wide operating temperature range
- Suitable for use in Class I luminaires
- Open & short circuit protection
- Over voltage protection
- Surge protection 1 kV L-N, 2 kV L, N-PE



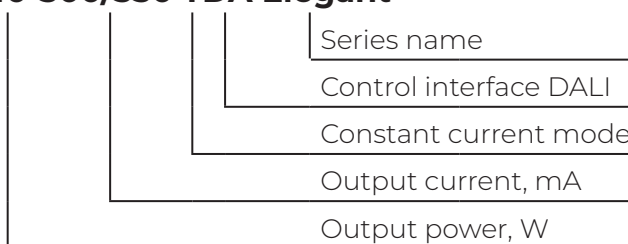
Description

Star 40 Elegant series combines the maximum range of control functions set with a convenient low-profile housing that allows them to be used in brightness control using the DALI digital interface. Star 40 Elegant series operates with power network 176-264 VAC and have IP rating 20. The power supplies Star 40-300/350TDA Elegant with output current 300 and 350 mA respectively available at this moment.

The main advantages of Star 40 Elegant are: power factor up to 0,98; efficiency up to 88 %; low output ripple and noise; extended temperature range from - 40 to + 40 °C without derating; compliance with EMC and Safety standards; digitally protocol DALI; open and short circuit protection, over voltage protection.

Model Encoding

STAR 40-300/350 TDA Elegant



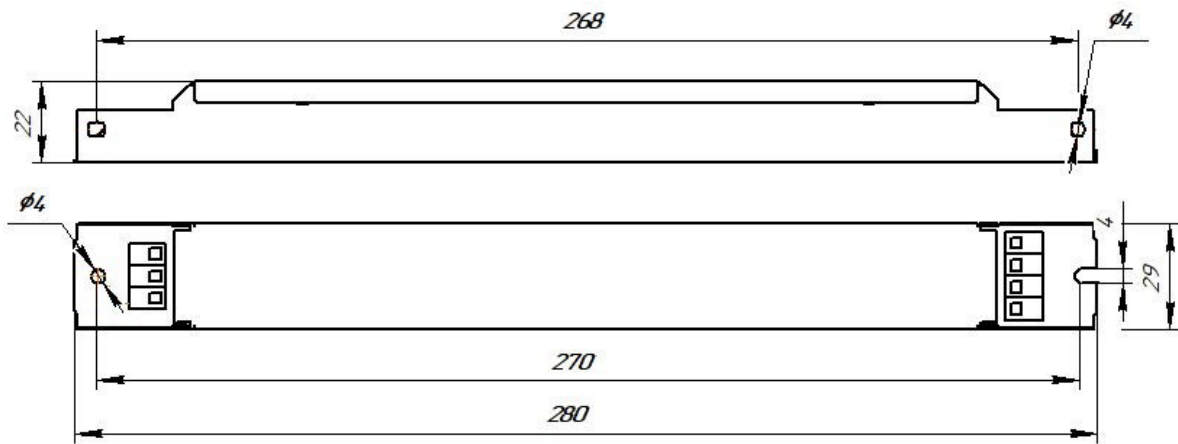
SPECIFICATION

	Model Name	Star 40-300/350TDA Elegant
OUTPUT	RATED CURRENT	300, 350 mA
	DIP - SWITCH	300 or 350 mA
	CONSTANT CURRENT REGION	45-115 V
	OPEN CIRCUIT VOLTAGE	125 V
	RATED POWER	40 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	0,25 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	88 %
	LEAKAGE CURRENT	< 0,3 mA
PROTECTION	OPEN CIRCUIT	Yes
	SHORT CIRCUIT	Yes
	OVER VOLTAGE	Yes
	DIMMING	Digitally protocol DALI
	IP RATING	IP20
ENVIRONMENT	WORKING TEMPERATURE	-40...+40 °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	280 x 29 x 22 mm
	WEIGHT	0,2 kg
	PACKING	325 x 305 x 260 mm, 60 pcs., 13,5 kg

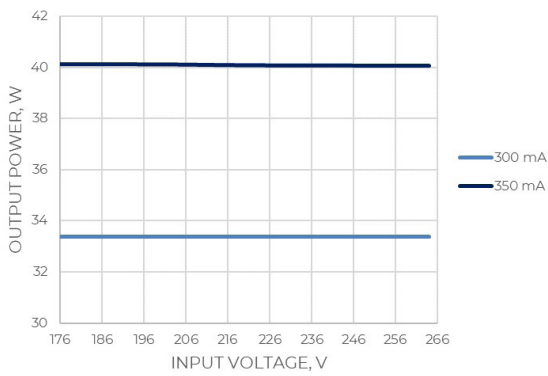
NOTE:

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

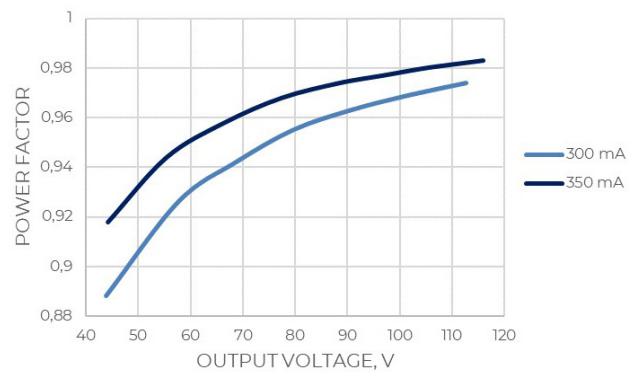
MECHANICAL SPECIFICATION



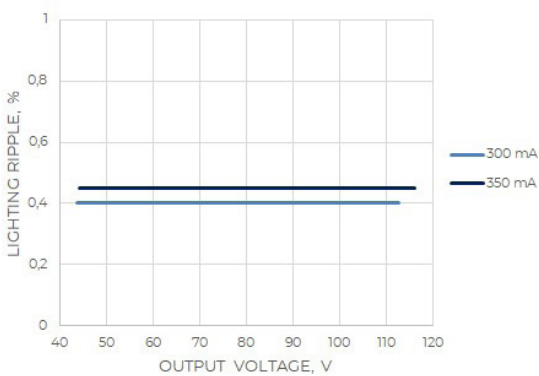
STATIC CHARACTERISTIC



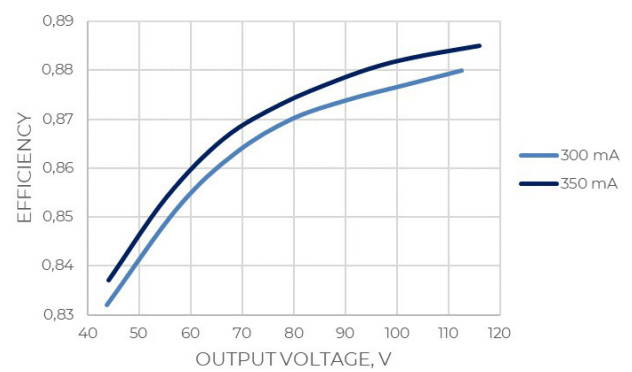
POWER FACTOR



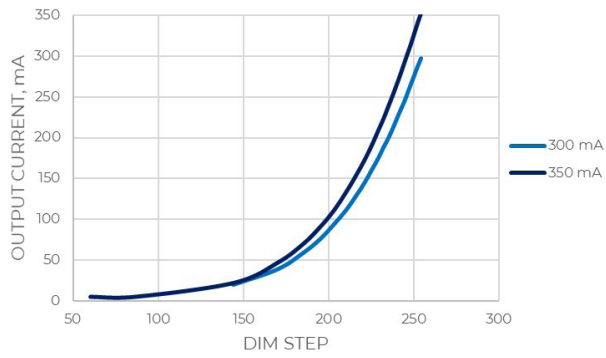
LIGHTING RIPPLE



EFFICIENCY vs OUTPUT VOLTAGE



OUTPUT CURRENT vs DIM STEP



DEPENDENCE OF THE OUTPUT CURRENT ON THE DIMMING LEVEL AT THE MAXIMUM OUTPUT VOLTAGE

