Tridonic LED Driver Comparison: 87500993 vs 28002465

87500993 — LC 35/200-350/121 flexC lp **SNC4** (essence series) | 28002465 — LC 38W 250-350mA flexC lp **ADV** (ADVANCED series)

Identity & status

	87500993 (SNC4)	28002465 (ADV)
Status	**Current production**	**Discontinued** (per tridonic.com product page)
Driver type	Constant current, non-dimmable, built-in, non-SELV	Constant current, non-dimmable, built-in, non-SELV
Series	essence series (datasheet 12/23-LC928-1)	ADVANCED series (datasheet 07/17-LC386-2)
Guarantee	5 years	5 years

Output — current settings and operating windows

	87500993 (SNC4)	28002465 (ADV)
Selectable output currents	200 / 250 / 300 / 350 mA (DIP switch; pre-set 350 mA)	250 / 275 / 300 / 325 / 350 mA (ADV plug resistors or 0Ω wire links; 350 mA = terminals open)
Forward voltage window	52 – 121 V (52 – 104 V at 350 mA)	51 – 109 V (all settings)
Output power range	10.4 – 36.4 W	12.8 – 38.2 W
Max output power	36.4 W (35 W rated)	38 W
Output current tolerance	± 7.5 %	± 7.5 % (± 2 % additional for ADV plug)
LF current ripple (<120 Hz)	± 5 %	± 5 %
Max output voltage (U-OUT)	320 V	250 V
Typ. efficiency (full load)	90 %	90 %
THD (full load)	< 15 %	< 20 %

Per-setting output data (from maker datasheets)

Current	87500993 — fwd voltage	87500993 — max power	28002465 — fwd voltage	28002465 — max power
200 mA	52 – 121 V	24.2 W	—	
250 mA	52 – 121 V	30.3 W	51 – 109 V	27.3 W
275 mA	—		51 – 109 V	30.0 W
300 mA	52 – 121 V	36.3 W	51 – 109 V	32.7 W
325 mA	—		51 – 109 V	35.4 W
350 mA	52 – 104 V	36.4 W	51 – 109 V	38.2 W

350 mA row highlighted: the top of the SNC4 window (104 V / 36.4 W) sits below the ADV (109 V / 38.2 W) — LED strings running near the ADV maximum exceed the SNC4.

Mains input & protection

	87500993 (SNC4)	28002465 (ADV)
Rated supply voltage	220 – 240 V	220 – 240 V
AC voltage range	198 – 264 V	198 – 264 V
DC voltage range	176 – 280 V (mains frequency 0/50/60 Hz)	Not rated for DC (50/60 Hz only)
Emergency lighting use	Yes — per EN 50172 (central battery) and EN 60598-2-22	Not listed
Max input current	0.19 A	0.2 A
Power factor λ (full load)	0.95	0.95
Overvoltage protection	320 V AC, 2 h	320 V AC, 48 h
Surge capability	1 kV L–N; 2 kV L/N–PE; 3.5 kV output–PE	1 kV L–N; 2 kV L/N–earth
Protections	Overload, short-circuit, no-load, overtemperature (EN 61347-2-13 C5e)	Overload, short-circuit, no-load, overtemperature (EN 61347-2-13 C5e)

Thermal & lifetime

	87500993 (SNC4)	28002465 (ADV)
Nominal lifetime	up to 100,000 h	up to 50,000 h
Max ambient ta	+60 °C (all settings)	+50 °C (+55 °C at 250 mA only)
Max case temp tc	75 – 85 °C by setting (85 °C at 350 mA)	70 °C
Storage temperature	-40 … +80 °C	-40 … +80 °C

Mechanical & wiring

	87500993 (SNC4)	28002465 (ADV)
Dimensions L x W x H	**180 x 30 x 21 mm**	**280 x 30 x 21 mm**
Fixing hole spacing	**168 mm**	**268 mm**
Weight	0.11 kg	0.161 kg
Casing / IP rating	Metal, white / IP20	Metal, white / IP20
Luminaire protection class	Class I only	Class I and class II
Terminals	Push-wire (WAGO 250), 0.5 – 1.5 mm²	45° push terminals, 0.5 – 1.5 mm²
Current setting method	DIP switch on the driver (set with mains off)	ADV plug resistors (Types A/B/C) or 0Ω wire links on select terminals
Max output wire length	2 m	2 m
Fixing torque	0.5 Nm / M4	0.5 Nm / M4

Key differences & compatibility notes

- **Not a drop-in mechanical swap:** the SNC4 is 100 mm shorter (180 vs 280 mm) with 168 mm hole spacing vs 268 mm — existing fixings will not line up; new holes/adaptation needed in the fitting.
- **Slightly lower ceiling at 350 mA:** SNC4 tops out at 104 V / 36.4 W against the ADV's 109 V / 38.2 W. Check the LED string voltage; strings above 104 V at 350 mA will not run on the SNC4.
- **Different current steps:** SNC4 adds a 200 mA setting but drops the ADV's 275 mA and 325 mA intermediate steps.
- **Simpler current selection:** DIP switch on the SNC4 vs ADV plug resistors / wire links on the ADV.
- **Emergency & DC:** SNC4 is rated for DC supply and central-battery emergency use; the ADV is AC only.
- **Class II:** the ADV was usable in class II luminaires; the SNC4 is class I only.
- **Longer service life:** up to 100,000 h on the SNC4 vs 50,000 h on the ADV, with a higher tc max (85 vs 70 °C).
- **Same protection concept:** both IP20, non-SELV, with overload / short-circuit / no-load / overtemperature protection; same wire sizes and 2 m max output leads.

Sources: Tridonic datasheet 12/23-LC928-1, Driver LC 35W 200-350mA flexC lp SNC4 (article 87500993), and Tridonic datasheet 07/17-LC386-2, Driver LC 38W 250-350mA flexC lp ADV (datasheet carries the older article number 87500496; tridonic.com/28002465 identifies the same product under article 28002465 and marks it Discontinued).
Prepared for Shaun Tiplady, Easy Control Gear — 20 October 2026.