

Features

- High Efficiency (Up to 91.0%)
- Full Power at Wide Output Current Range (Constant Power)
- Thermal Sensing and Protection for LED Module
- 0-10V/PWM/Timer Dimmable (3 Timer Modes)
- Dim-to-Off with Standby Power ≤ 0.5 W
- Always-on Auxiliary Power: 12Vdc, 200mA (Transient Peak Current up to 400mA)
- Output Lumen Compensation
- Input Surge Protection: 6kV line-line, 10kV line-earth
- All-Around Protection: OVP, SCP, OTP
- Waterproof (IP67) and UL Dry / Damp / Wet Location
- Class 2 & SELV Output
- TYPE HL, for use in a Class I, Division 2 hazardous (Classified) location
- Class P, UL Listed Versions Available (See Note 6)
- 7 Years Warranty



Description

The EUD-075SxxxDT series is a 75W, constant-current, programmable LED driver that operates from 90-305 Vac input with excellent power factor. Created for low bay, tunnel and street lights, it provides a dim-to-off mode with low standby power. The high efficiency of these drivers and compact metal case enables them to run cooler, significantly improving reliability and extending product life. To ensure trouble-free operation, protection is provided against input surge, output over voltage, short circuit, and over temperature.

Models

Adjustable Output Current Range	Full-Power Current Range(1)	Default Output Current	Input Voltage Range(2)	Output Voltage Range	Max. Output Power	Typical Efficiency (3)	Power Factor		Model Number
							120Vac	220Vac	
45-700mA	450-700mA	530 mA	90~305 Vac/ 127~300 Vdc	54~167Vdc	75 W	91.0%	0.99	0.96	EUD-075S070DT
70-1050mA	700-1050mA	700 mA	90~305 Vac/ 127~300 Vdc	36~107Vdc	75 W	91.0%	0.99	0.96	EUD-075S105DT ⁽⁴⁾
119-1750mA	1190-1750mA	1400 mA	90~305 Vac/ 127~300 Vdc	22 ~ 63Vdc	75 W	90.5%	0.99	0.96	EUD-075S175DT ⁽⁴⁾
140-1800mA	1400-1800mA	1400 mA	90~305 Vac/ 127~300 Vdc	22 ~ 54Vdc	75 W	90.5%	0.99	0.96	EUD-075S180DT ⁽⁵⁾
192-2800mA	1920-2800mA	2100 mA	90~305 Vac/ 127~300 Vdc	14 ~ 39Vdc	75 W	89.5%	0.99	0.96	EUD-075S280DT ⁽⁵⁾

Notes: (1) Output current range with constant power at 75W

(2) Certified input voltage range: UL, FCC 100-277Vac or 127-300Vdc; otherwise 100-240Vac or 127-250Vdc (except KS)

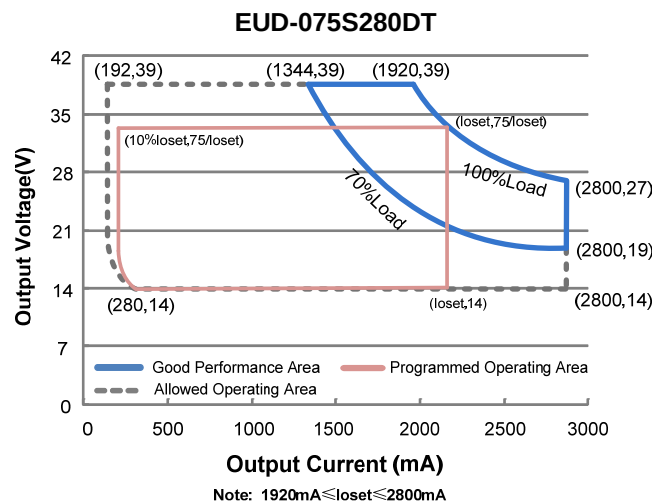
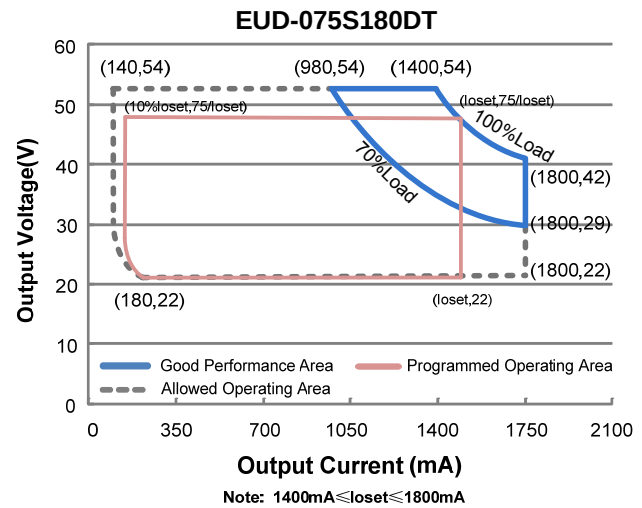
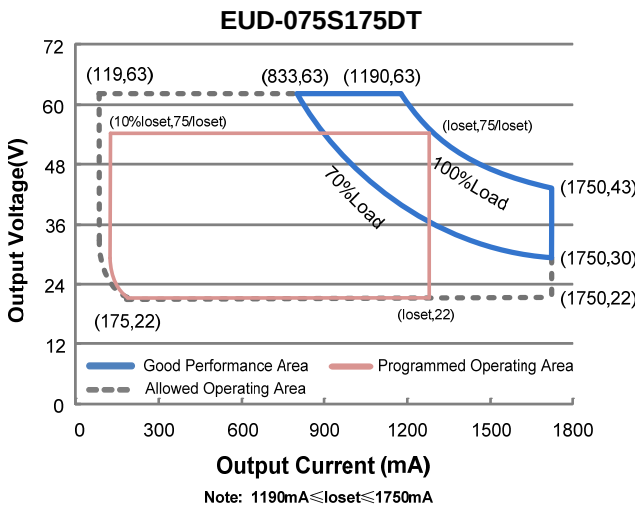
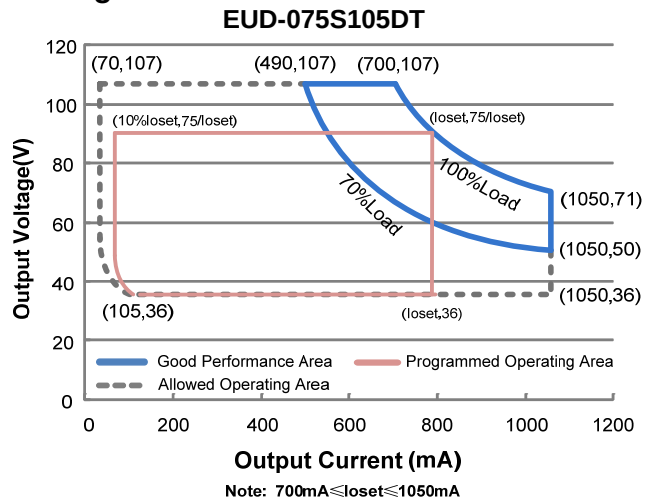
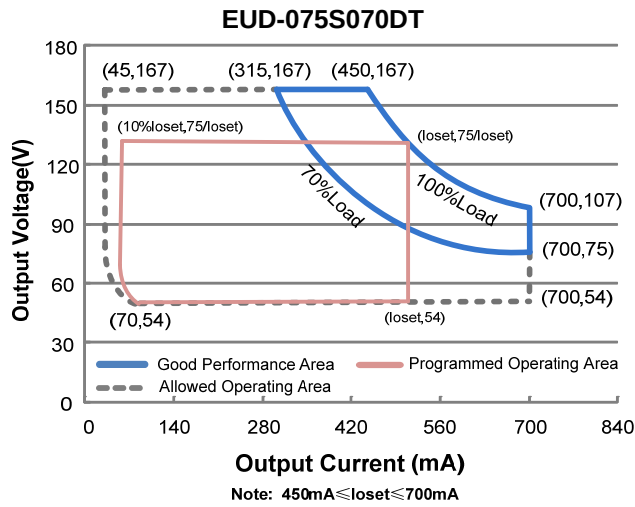
(3) Measured at full load and 220Vac input (see below "General Specifications" for details).

(4) SELV Output.

(5) Class 2 & SELV Output.

(6) Standard part UL Type TL. For UL Listed Class P models add suffix -00C0.

I-V Operating Area



Input Specifications

Parameter	Min.	Typ.	Max.	Notes
Input Voltage	90 Vac	-	305 Vac	127~300 Vdc
Input Frequency	47 Hz	-	63 Hz	
Leakage Current	-	-	0.75 MIU	UL8750; 277Vac/ 60Hz
	-	-	0.70 mA	IEC60598-1; 240Vac/ 60Hz
Input AC Current	-	-	1.02 A	Measured at full load and 100 Vac input.
	-	-	0.48 A	Measured at full load and 220 Vac input.
Inrush Current(I^2t)	-	-	1.03 A ² s	At 220Vac input, 25°C cold start, duration=740 μ s, 10%Ipk-10%Ipk. See Inrush Current Waveform for the details.
PF	0.90	-	-	At 100-277Vac, 50-60Hz, 70%-100% Load (52.5-75W)
THD	-	-	20%	
THD	-	-	10%	At 220-240Vac, 50-60Hz, 75%-100% Load (56.25-75W)

Output Specifications

Parameter	Min.	Typ.	Max.	Notes
Output Current Tolerance	-5%loset	-	5%loset	At full load condition
Output Current Setting(loset) Range				
EUD-075S070DT	45 mA	-	700 mA	
EUD-075S105DT	70 mA	-	1050 mA	
EUD-075S175DT	119 mA	-	1750 mA	
EUD-075S180DT	140 mA	-	1800 mA	
EUD-075S280DT	192 mA	-	2800 mA	
Output Current Setting Range with Constant Power				
EUD-075S070DT	450 mA	-	700 mA	
EUD-075S105DT	700 mA	-	1050 mA	
EUD-075S175DT	1190 mA	-	1750 mA	
EUD-075S180DT	1400 mA	-	1800 mA	
EUD-075S280DT	1920 mA	-	2800 mA	
Total Output Current Ripple (pk-pk)	-	5%lomax	10%lomax	At full load condition, 20 MHz BW
Output Current Ripple at < 200 Hz (pk-pk)	-	1%lomax	-	At full load condition. Only this component of ripple is associated with visible flicker.
Startup Overshoot Current	-	-	10%lomax	At full load condition
No Load Output Voltage				
EUD-075S070DT	-	-	190 V	
EUD-075S105DT	-	-	120 V	
EUD-075S175DT	-	-	71 V	
EUD-075S180DT	-	-	59 V	
EUD-075S280DT	-	-	45 V	
Line Regulation	-	-	±0.5%	Measured at full load
Load Regulation	-	-	±1.5%	