

Features

- Ultra High Efficiency (Up to 93.5%)
- Full Power at Wide Output Current Range (Constant Power)
- Isolated 0-10V/10V PWM Dimmable (DT models)
3-Timer-Modes Dimmable (TT models)
- Input Surge Protection: DM 6kV, CM 10kV
- All-Around Protection: OVP, SCP, OTP
- IP67 and UL Dry / Damp / Wet Location
- SELV Output
- TYPE HL, for use in a Class I, Division 2 hazardous (Classified) location
- 5 Years Warranty



Description

The *EUK-320SxxxDT(TT)* series is a 320W, constant-current, programmable IP67 LED driver that operates from 90-305 Vac input with excellent power factor. It is created for many lighting applications including high bay, high mast, aquaculture and sport, etc. 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 (5)
							120Vac	220Vac	
105-1500mA	1050-1500mA	1400 mA	90~305 Vac/ 127~300 Vdc	107~305Vdc	320 W	93.5%	0.99	0.96	EUK-320S150DT(TT)
154-2200mA	1540-2200mA	2100 mA	90~305 Vac/ 127~300 Vdc	73~208Vdc	320 W	93.5%	0.99	0.96	EUK-320S220DT(TT)
224-3200mA	2240-3200mA	2800 mA	90~305 Vac/ 127~300 Vdc	50~143Vdc	320 W	92.5%	0.99	0.96	EUK-320S320DT(TT)
322-4600mA	3220-4600mA	4200 mA	90~305 Vac/ 127~300 Vdc	35~100Vdc	320 W	92.5%	0.99	0.96	EUK-320S460DT(TT) ⁽⁴⁾
469-6700mA	4690-6700mA	6700 mA	90~305 Vac/ 127~300 Vdc	24 ~ 68Vdc	320 W	92.5%	0.99	0.96	EUK-320S670DT(TT) ⁽⁴⁾

Notes: (1) Output current range with constant power at 320W.

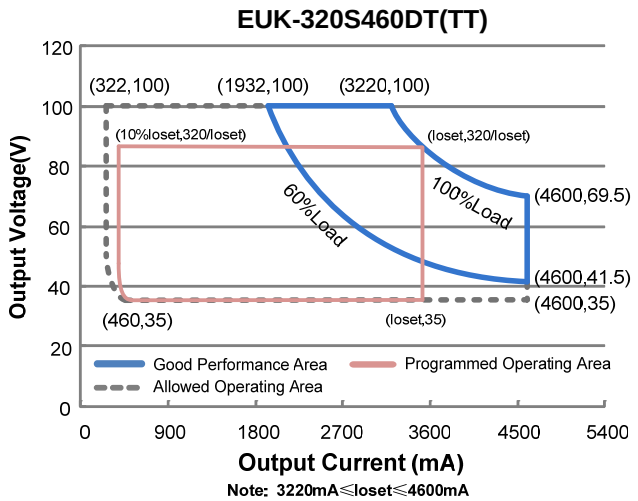
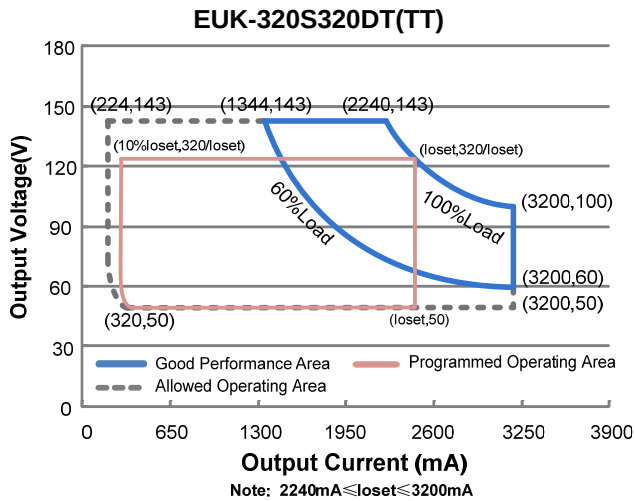
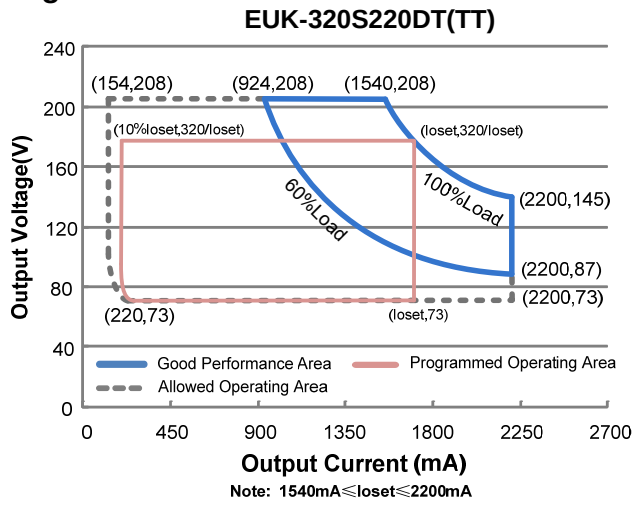
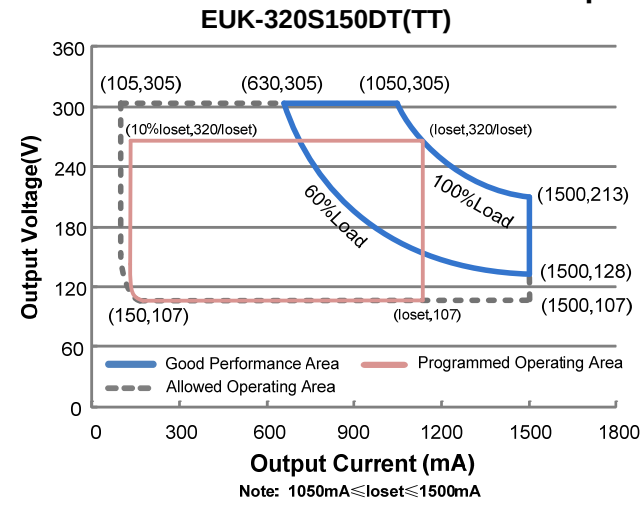
(2) Certified input voltage range: UL, FCC 100-277Vac or 127-300Vdc; otherwise: 100-240Vac or 127-250Vdc.

(3) Measured at 100% load and 220Vac input (see below "General Specifications" for details).

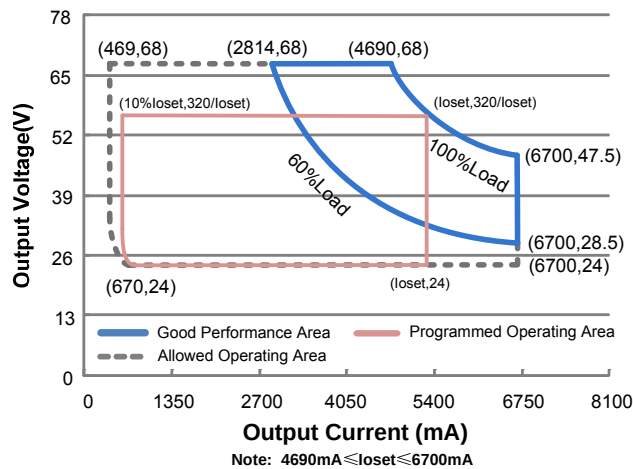
(4) SELV output.

(5) All the models are certificated to KCC, except EUK-320SxxxTT.

I-V Operating Area



EUK-320S670DT(TT)



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	-	-	3.20 A	Measured at 100% load and 120 Vac input.
	-	-	1.70 A	Measured at 100% load and 220 Vac input.
Inrush Current(I^2t)	-	-	1.30 A ² s	At 220Vac input, 25°C cold start, duration=3.92 ms, 10%Ipk-10%Ipk. See Inrush Current Waveform for the details.
PF	0.9	-	-	At 100-277Vac, 50-60Hz, 60%-100%Load (192-320W)
THD	-	-	20%	
THD	-	-	10%	At 220-240Vac, 50-60Hz, 75%-100% Load (240-320W)

Output Specifications

Parameter	Min.	Typ.	Max.	Notes
Output Current Tolerance	-5%loset	-	5%loset	At 100% load condition
Output Current Setting(loset) Range				
EUK-320S150DT(TT)	105 mA	-	1500 mA	
EUK-320S220DT(TT)	154 mA	-	2200 mA	
EUK-320S320DT(TT)	224 mA	-	3200 mA	
EUK-320S460DT(TT)	322 mA	-	4600 mA	
EUK-320S670DT(TT)	469 mA	-	6700 mA	
Output Current Setting Range with Constant Power				
EUK-320S150DT(TT)	1050 mA	-	1500 mA	
EUK-320S220DT(TT)	1540 mA	-	2200 mA	
EUK-320S320DT(TT)	2240 mA	-	3200 mA	
EUK-320S460DT(TT)	3220 mA	-	4600 mA	
EUK-320S670DT(TT)	4690 mA	-	6700 mA	
Total Output Current Ripple (pk-pk)	-	5%lomax	10%lomax	At 100% load condition. 20 MHz BW
Output Current Ripple at < 200 Hz (pk-pk)	-	2%lomax	-	At 100% load condition. Only this component of ripple is associated with visible flicker.
Startup Overshoot Current	-	-	10%lomax	At 100% load condition
No Load Output Voltage				
EUK-320S150DT(TT)	-	-	350 V	
EUK-320S220DT(TT)	-	-	250 V	
EUK-320S320DT(TT)	-	-	170 V	
EUK-320S460DT(TT)	-	-	120 V	
EUK-320S670DT(TT)	-	-	85 V	
Line Regulation	-	-	±0.5%	Measured at 100% load
Load Regulation	-	-	±1.5%	