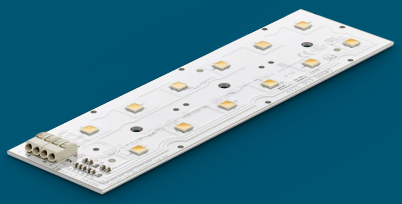
Xitanium

Datasheet

Fortimo FastFlex LED 2x6 DA HE



High efficiency in familiar form factor

Fortimo FastFlex 2x6 DA HE

Choose Fortimo FastFlex DA HE for high efficiencies in industry familiar form factors
Application:

- Road lighting
- Urban street lighting
- Flood and area lighting
- Tunnel lighting
- High bay lighting

Key features and benefits

- High efficiencies on LED module level in familiar form factors
- Various combinations of size, CRI and CCT available
- Mechanically backwards compatible with DA Gen 4+/Gen 5
- Reliability testing for OEM peace of mind
- Embedded module surge protection
- Philips system warranty



Ordering data

Commercial product name	EOC	12NC	EPREL No.	EPREL model ID	Box quantity
Fortimo FastFlex LED 2x6/722 DA HE	8720169 284685 00	9290 039 67906	2883600	929003967906X	25
Fortimo FastFlex LED 2x6/727 DA HE	8719514 403192 00	9290 034 01406	2883615	929003401406X	25
Fortimo FastFlex LED 2x6/730 DA HE	8719514 403215 00	9290 034 01506	2883634	929003401506X	25
Fortimo FastFlex LED 2x6/740 DA HE	8719514 403239 00	9290 034 01606	2883607	929003401606X	25

*Some product types are region-specific. Please consult with your sales representative for more information.

Drive currents

Parameter	Nominal*	Life**	Max***	Unit
Fortimo FastFlex LED 2x6 DA HE	480	1050	1500	mA

Module temperatures

Parameter	Nominal*	Life**	Max***	Unit
T_c (case temperature at T_c point)	80	85	95	°C

* Nominal value at which typical performance is specified

** Value at which life time is specified

*** Maximum value for safe operation, do not operate above this value

Optical characteristics

Fortimo FastFlex LED 2x6/722 DA HE
Fortimo FastFlex LED 2x6/727 DA HE
Fortimo FastFlex LED 2x6/730 DA HE
Fortimo FastFlex LED 2x6/740 DA HE

	2200K	2700K	3000K	4000K	Unit
Luminous flux (Φuse)*	2595	2655	2920	3000	lm
Efficacy*	162	167	184	189	lm/W
Average Luminous flux	2667	2729	3001	3083	lm
Average Efficacy	167	172	189	194	lm/W
Max. Efficacy	179	197	211	220	lm/W
Max. Color consistency	5	5	5	5	SDCM
Color coordinates (CIEx, CIEy)	0.505, 0.417	0.455, 0.409	0.433, 0.404	0.379, 0.379	
Min. CRI	70	70	70	70	
Min. R9	-50	-50	-50	-50	
Max. Photobiological safety	RG1 unlimited	RG1 unlimited	RG1 unlimited	RG1 unlimited	
Energy label EPREL	D 	D 	C 	C 	

Measurement precision for flux +/- 5%. Measurement precision for efficacy +/- 6%. Measurement precision for x, y +/- 0.005. Measurement precision for CRI 1.5.

* Luminous flux(Φuse) and Efficacy refer to Single Lighting Regulation (SLR). Luminous flux(Φuse) means the part of the luminous flux of a light source that is considered when determining its energy efficiency: – for non-directional light sources it is the total flux emitted in a solid angle of 4π sr (corresponding to a 360° sphere)

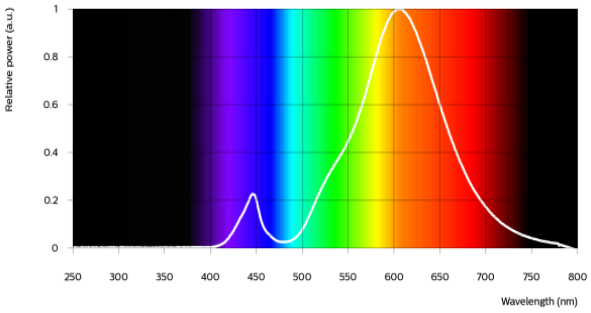
Tuning table

Operation Point		Current	2200K	2700K	3000K	4000K	Unit
Tc = 25°C	Luminous flux	80% I-nom 384mA	2236	2288	2515	2584	lm
		I-nom 480mA	2770	2833	3116	3201	lm
		I-max 1500mA	8003	8190	9015	9265	lm
	Efficacy	80% I-nom 384mA	173	179	197	202	lm/W
		I-nom 480mA	170	174	191	196	lm/W
		I-max 1500mA	140	143	158	162	lm/W
Tc = 80°C	Luminous flux	80% I-nom 384mA	2097	2145	2359	2424	lm
		I-nom 480mA	2595	2655	2920	3000	lm
		I-max 1500mA	7416	7592	8364	8597	lm
	Efficacy	80% I-nom 384mA	166	170	187	192	lm/W
		I-nom 480mA	162	167	184	189	lm/W
		I-max 1500mA	132	135	149	153	lm/W
Tc = 95°C	Luminous flux	80% I-nom 384mA	2048	2096	2305	2368	lm
		I-nom 480mA	2534	2593	2852	2930	lm
		I-max 1500mA	7210	7381	8134	8362	lm
	Efficacy	80% I-nom 384mA	164	168	184	189	lm/W
		I-nom 480mA	159	164	180	185	lm/W
		I-max 1500mA	129	132	146	150	lm/W

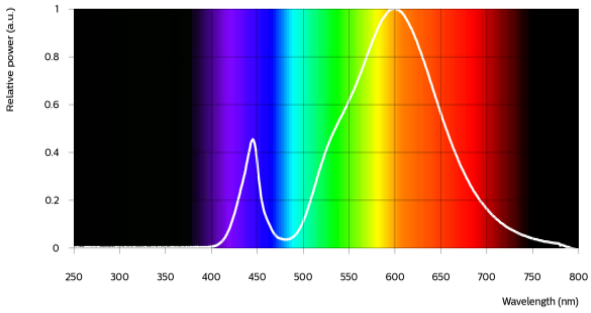
*Based on average value

Spectral characteristics

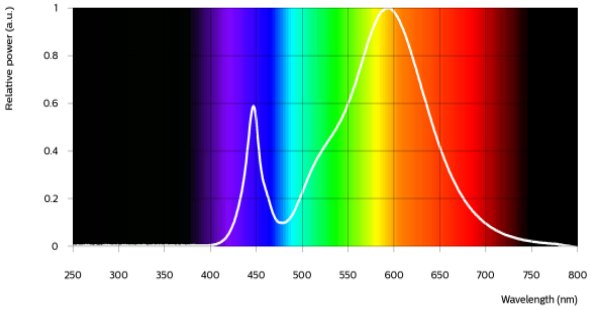
CRI70 2200K



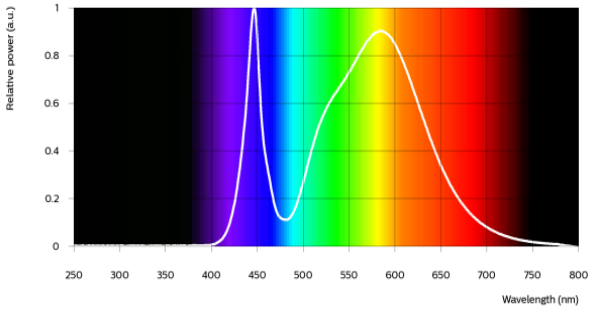
CRI70 2700K



CRI70 3000K



CRI70 4000K



Electrical characteristics

Fortimo FastFlex LED 2x6/722 DA HE

Parameter	Min	Typ	Max	Unit
Forward voltage	31.6	33.3	34.2	V
Power consumption	15.2	16.0	16.4	W = kWh/1000h
Number of modules in series per chain			10	
Number of modules in parallel			1	

Measurement precision for Vf +/- 3%. Measurement precision for power +/- 3.3%

Fortimo FastFlex LED 2x6/727 DA HE
Fortimo FastFlex LED 2x6/730 DA HE
Fortimo FastFlex LED 2x6/740 DA HE

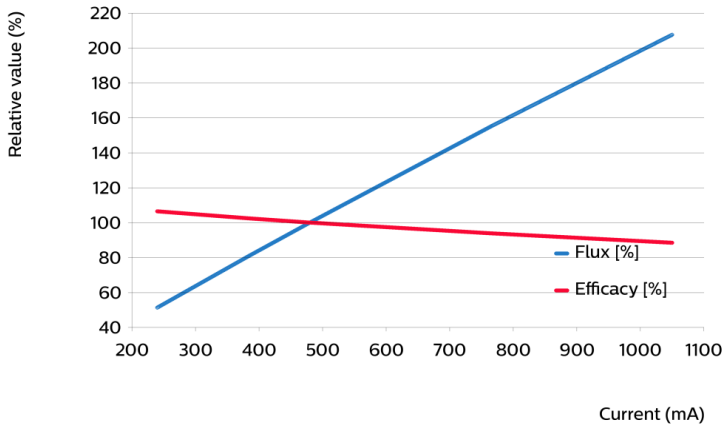
Parameter	Min	Typ	Max	Unit
Forward voltage	31.8	33.2	34.2	V
Power consumption	15.3	15.9	16.4	W = kWh/1000h
Number of modules in series per chain			10	
Number of modules in parallel			1	

Measurement precision for Vf +/- 3%. Measurement precision for power +/- 3.3%

Tuning information

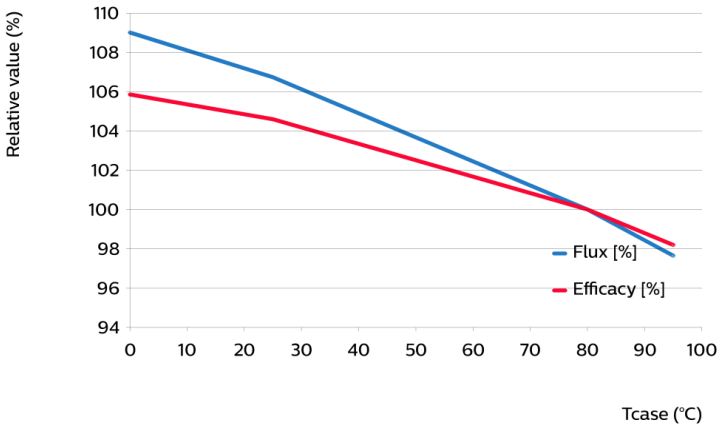
Flux and efficacy versus current (at Tc nominal)

I [mA]	Flux [%]	Efficacy [%]
1050	208	88
765	155	94
480	100	100
384	81	102
240	51	106



Flux and efficacy versus temperature at Tc (at I nominal)

Tc [°C]	Flux [%]	Efficacy [%]
95	98	98
80	100	100
25	107	105
0	109	106



Lumen maintenance

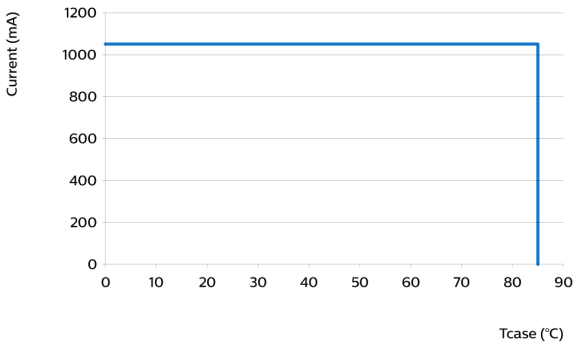
Operation point	Lumen maintenance x 1000 hours	L70 B50	L70 B20	L70 B10	L80 B50	L80 B20	L80 B10	L90 B50	L90 B20	L90 B10
I 480mA	Tc 25°C	>100	>100	>100	>100	>100	>100	>100	>100	>100
	Tc 65°C	>100	>100	>100	>100	>100	>100	>100	>100	>100
	Tc 85°C	>100	>100	>100	>100	>100	>100	>100	>100	>100
I 700mA	Tc 25°C	>100	>100	>100	>100	>100	>100	>100	>100	>100
	Tc 65°C	>100	>100	>100	>100	>100	>100	>100	>100	>100
	Tc 85°C	>100	>100	>100	>100	>100	>100	>100	>100	>100
I 1050mA	Tc 25°C	>100	>100	>100	>100	>100	>100	>100	>100	>100
	Tc 65°C	>100	>100	>100	>100	>100	>100	>100	>100	>100
	Tc 85°C	>100	>100	>100	>100	>100	>100	>100	>100	>100

We use a Philips designed lifetime model, which uses LM80 data as only one of its inputs and assumes a continues operation of the module.
*B20 and B10 values are calculated by means of statistical techniques.

Lifetime

Parameter	Value	Unit
M70F50 nominal	>100000	hours
M70F50 life	>100000	hours

Performance Window

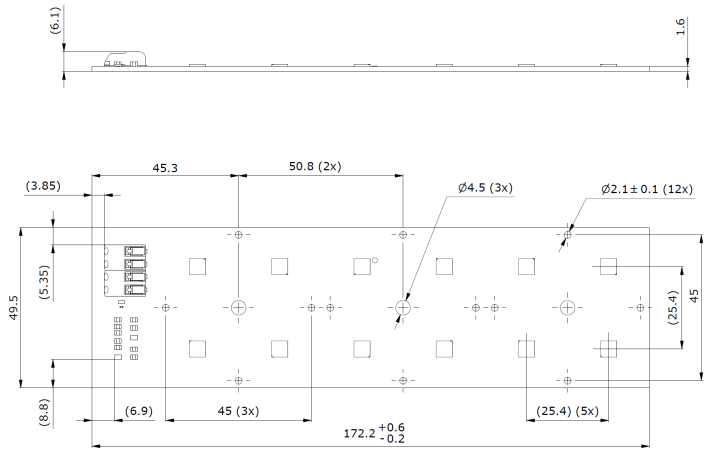


Wiring

Specification item	Value	Unit	Condition
Input wire cross-section	0.25...0.75	mm^2	solid wire
	18...24	AWG	solid wire
Input wire strip length	7.5...8.5	mm	
Input wire cross-section	0.33...0.5	mm^2	stranded wire
	20...22	AWG	stranded wire
Input wire strip length	7.5...8.5	mm	

Mechanical characteristics

Parameter	Min	Typ	Max	Unit
Length	172	172.2	172.8	mm
Width	49.3	49.5	49.7	mm
Height including connector		6.1		mm
Height PCB		1.6		mm
Product mass		39.2		gram



Absolute ratings

Parameter	Min	Max	Unit
Current through the LED module (I-max)		1500	mA
Case temperature (Tc-max)		95	°C
Power at rated Vf-max and I-max		56.2	W
ESD (direct contact)	8		kV
ESD (air)	15		kV
Working voltage		60	V_{dc}
Ambient temperature	-40	50	°C
Storage temperature	-20	80	°C

Application information

Certificates and Standards
CE
ENEC
cULus
ENEC+

Environmental
RoHS/REACH

Zhaga	Compliant*

*Book 15, 2x6-DA. Certification applies to selected products. Visit the Zhaga website for details: https://www.zhagastandard.org/

Application	
Overheating protection	NTC 15K Ohm B=3987K + 390 Ohm in series
Dimming	Yes

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