

# LED lamps

## Data sheet




### Features:

- Energy saving lamps
- Energy efficiency class A+
- High luminous efficiency
- Colour rendering index Ra 80
- Colour consistency SDCM max 6
- Warm white light
- Wide ambient temperature during operation -10 °C to +40 °C (LED-...-AL), -10 °C to +50 °C (LED-...-MCOB)
- Lumen maintenance factor at the end of nominal lifetime 0,70
- Eco-friendly
- Contains no mercury, no lead
- Completely safe because of no UV and no IR light

### Application:

- Lamps intended to household use
- Not to use with light dimmers
- Use in open luminaires or in closed luminaires with diameter much larger than the diameter of LED lamp in order to limit ambient temperature rise above +40°C (LED-...-AL), +50 °C (LED-...-MCOB) during lamp operation

### Technical data - lamps with GU10 base:

Picture	Product code	Power [W]	Total luminous flux [lm]	Useful luminous flux [lm]	Luminous efficiency [lm/W]	Equivalent incandescent lamp power [W]	Colour temperature [K]	Beam angle [°]	Life time [h]	Base	Lamp size (length) [mm]	Lamp size (diameter) [mm]	Energy consumption in kWh/1000h	Power factor PF	Voltage range [V]	Peak intensity [cd]	Input line current [mA]	Switching cycles	Warm up time to 60% of the full light output [s]	Strating time [s]
	LED-6,5W30K120GU10SMD-AL (*)	6,5	500	400	62	58	3 000	120	30 000	GU10	55	50	7	>0,5	100-240 50/60Hz	200	55	35 000	<1	<0,5
	LED-6,5W30K38GU10SMD-AL	6,5	500	450	69	65	3 000	38	30 000	GU10	55	50	7	>0,5	100-240 50/60Hz	700	55	35 000	<1	<0,5
	LED-4W30K38GU10SMD-AL	4,0	260	230	58	35	3 000	38	30 000	GU10	55	50	4	>0,4	100-240 50/60Hz	530	35	35 000	<1	<0,5








(\*) Lamp is not suitable for accent lighting

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Technical data - lamps with E27 and E14 base :

Picture	Product code	Power [W]	Total luminous flux [lm]	Useful luminous flux [lm]	Luminous efficiency [lm/W]	Equivalent incandescent lamp power [W]	Colour temperature [K]	Beam angle [°]	Life time [h]	Base	Lamp size (length) [mm]	Lamp size (diameter) [mm]	Energy consumption in kWh/1000h	Power factor PF	Voltage range [V]	Peak intensity [cd]	Input line current [mA]	Switching cycles	Warm up time to 60% of the full light output [s]	Strating time [s]
	LED-12W27K200E27G120-AL.	12,0	1055	1055	88	75	2 700	200	30 000	E27	156	120	12	>0,5	220-240 50/60Hz	-	100	35 000	<1	<0,5
	LED-10W27K200E27G95-AL.	10,0	806	806	81	60	2 700	200	30 000	E27	132	95	10	>0,5	220-240 50/60Hz	-	80	35 000	<1	<0,5
	LED-15W27K200E27A65-AL	15,0	1520	1520	101	100	2 700	200	30 000	E27	130	65	15	>0,5	220-240 50/60Hz	-	120	35 000	<1	<0,5
	LED-12W27K200E27A60-AL	12,0	1055	1055	88	75	2 700	200	30 000	E27	120	60	12	>0,5	220-240 50/60Hz	-	100	35 000	<1	<0,5
	LED-10W27K200E27A60-AL	10,0	806	806	81	60	2 700	200	30 000	E27	112	60	10	>0,5	220-240 50/60Hz	-	80	35 000	<1	<0,5
	LED-10W27K360E27A65-MCOB	10,0	1100	1100	110	77	2 700	360	30 000	E27	115	65	10	>0,5	220-240 50/60Hz	-	120	35 000	<1	<0,5
	LED-8W27K360E27A65-MCOB	8,0	840	840	105	62	2 700	360	30 000	E27	115	65	8	>0,5	220-240 50/60Hz	-	110	35 000	<1	<0,5
	LED-6W27K360E27A60-MCOB	6,0	600	600	100	48	2 700	360	30 000	E27	110	60	6	>0,5	220-240 50/60Hz	-	90	35 000	<1	<0,5
	LED-4W30K200E14P45-AL	4,0	300	300	75	30	3 000	200	20 000	E14	79	45	4	>0,4	220-240 50/60Hz	-	40	35000	<1	<0,5
	LED-5,5W30K200E14C-AL	5,5	470	470	85	40	3 000	200	30 000	E14	103	37	6	>0,5	220-240 50/60Hz	-	45	35000	<1	<0,5
	LED-5,5W30K200E27G45-AL	5,5	470	470	85	40	3 000	200	30 000	E27	77	45	6	>0,5	220-240 50/60Hz	-	45	35000	<1	<0,5

Relative spectral power distribution in the range 180-800nm

