

ECG lifetime

Expected lifetime is the calculation of the ECG lifetime according to IEC_60929_Edition_4_2011. As background for this estimation, are the MTTF values according to SN 29500 and the component- parameters used

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QUICKTRONIC® INTELLIGENT (DALI) DIM – ECG dimmable for T5/16 mm lamps

ECG	Lamp		ECG ambient temperature (t _a)		
			40°C	50°C	60°C
QTi (DALI) 1x14/24 DIM	1xHE 14W (SLS)	lifetime [h]	>100.000	>100.000	>100.000
		temperature at t _c -point [°C]	45	55	65
	1xHO 24W (Constant)	lifetime [h]	>100.000	>100.000	>100.000
		temperature at t _c -point [°C]	45	55	65
	1xDULUX L 24W	lifetime [h]	>100.000	>100.000	>100.000
		temperature at t _c -point [°C]	45	55	65
QTi (DALI) 1x21/39 DIM	1xHE 21W (SLS)	lifetime [h]	>100.000	>100.000	>100.000
		temperature at t _c -point [°C]	50	60	70
	1xHO 39W (Constant, SLS)	lifetime [h]	>100.000	>100.000	>100.000
		temperature at t _c -point [°C]	50	60	70
	1xDL 40W (Constant)	lifetime [h]	>100.000	>100.000	>100.000 ¹
		temperature at t _c -point [°C]	50	60	70 ¹
	1xF 70W	lifetime [h]	>100.000	>100.000	>100.000 ¹
		temperature at t _c -point [°C]	50	60	70 ¹
QTi (DALI) 1x28/54 DIM	1xHE 28W (SLS), 1xHE 25W ES	lifetime [h]	>100.000	>100.000	>100.000
		temperature at t _c -point [°C]	50	60	70
	1xHO 50W ES	lifetime [h]	>100.000	>100.000	>100.000
		temperature at t _c -point [°C]	50	60	70
	1xHO 54W (Constant, SLS, XT)	lifetime [h]	>100.000	>100.000	>100.000
		temperature at t _c -point [°C]	50	60	70
	1xDULUX L 55W (Constant, XT)	lifetime [h]	>100.000	>100.000	>100.000
		temperature at t _c -point [°C]	50	60	70
QTi (DALI) 1x35/49/80 DIM	1xHE 35W, 1xHE 32W ES	lifetime [h]	>100.000	>100.000	>100.000
		temperature at t _c -point [°C]	50	60	70
	1xHO 45W ES	lifetime [h]	>100.000	>100.000	>100.000 ¹
		temperature at t _c -point [°C]	50	60	70 ¹
	1xHO 49W (Constant)	lifetime [h]	>100.000	>100.000	>100.000 ¹
		temperature at t _c -point [°C]	50	60	70 ¹
	1xHO 73W ES	lifetime [h]	>100.000	>100.000	90.000 ¹
		temperature at t _c -point [°C]	55	65	75 ¹
	1xHO 80W (Constant, XT)	lifetime [h]	>100.000	>100.000	90.000 ¹
		temperature at t _c -point [°C]	55	65	75 ¹
QTi (DALI) 2x14/24 DIM	2xHE 14W (SLS)	lifetime [h]	>100.000	>100.000	>100.000
		temperature at t _c -point [°C]	50	60	70
	2xHO 24W (Constant)	lifetime [h]	>100.000	>100.000	>100.000
		temperature at t _c -point [°C]	50	60	70
	2xDULUX L 24W	lifetime [h]	>100.000	>100.000	>100.000
		temperature at t _c -point [°C]	50	60	70
QTi (DALI) 2x21/39 DIM	2xHE 21W (SLS)	lifetime [h]	>100.000	>100.000	>100.000
		temperature at t _c -point [°C]	50	60	70
	2xHO 39W (Constant, SLS)	lifetime [h]	>100.000	>100.000	90.000 ¹
		temperature at t _c -point [°C]	55	65	70 ¹
	2xDL 40W (Constant)	lifetime [h]	>100.000	>100.000	90.000 ¹
		temperature at t _c -point [°C]	55	65	70 ¹
QTi (DALI) 2x21/39 DIM	2xF 70W	lifetime [h]	>100.000	>100.000	80.000 ¹
		temperature at t _c -point [°C]	60	70	75 ¹
QTi (DALI) 2x28/54 DIM	2xHE 28W (SLS), 2xHE 25W ES	lifetime [h]	>100.000	>100.000	>100.000
		temperature at t _c -point [°C]	50	60	70
	2xHO 50W ES	lifetime [h]	>100.000	>100.000	90.000 ¹
		temperature at t _c -point [°C]	55	65	75 ¹
	2xHO 54W (Constant, SLS, XT)	lifetime [h]	>100.000	>100.000	90.000 ¹
		temperature at t _c -point [°C]	55	65	75 ¹
	2xDULUX L 55W (Constant, XT)	lifetime [h]	>100.000	>100.000	80.000 ¹
		temperature at t _c -point [°C]	60	70	75 ¹

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QTi (DALI) 2x35/49 DIM	2xHE 35W,	lifetime [h]	>100.000	>100.000	90.000 ¹
		temperature at t _c -point [°C]	55	65	75 ¹
	2xHO 49W (Constant)	lifetime [h]	>100.000	>100.000	90.000 ¹
		temperature at t _c -point [°C]	55	65	75 ¹
QTi (DALI) 2x35/49/80 DIM	2xHE 35W, 2xHE 32W ES	lifetime [h]	>100.000	>100.000	>100.000 ¹
		temperature at t _c -point [°C]	50	60	70 ¹
	2xHO 45W ES	lifetime [h]	>100.000	>100.000	>100.000 ¹
		temperature at t _c -point [°C]	50	60	70 ¹
	2xHO 49W (Constant)	lifetime [h]	>100.000	>100.000	>100.000 ¹
		temperature at t _c -point [°C]	50	60	70 ¹
	2xHO 73W ES	lifetime [h]	>100.000	>100.000	80.000 ¹
		temperature at t _c -point [°C]	60	70	75 ¹
QTi (DALI) 3x14/24 DIM	3xHE 14W	lifetime [h]	>100.000	>100.000	>100.000
		temperature at t _c -point [°C]	50	60	70
	3xHO 24W (Constant)	lifetime [h]	>100.000	>100.000	90.000
		temperature at t _c -point [°C]	55	65	75
	3xDULUX L 24W	lifetime [h]	>100.000	>100.000	90.000
		temperature at t _c -point [°C]	55	65	75
Qti (DALI) 4x14/24 DIM	4xHE 14W	lifetime [h]	>100.000	>100.000	90.000
		temperature at t _c -point [°C]	55	65	75
	4xHO 24W (Constant)	lifetime [h]	>100.000	>100.000	80.000 ¹
		temperature at t _c -point [°C]	60	70	75 ¹
	4xDULUX L 24W	lifetime [h]	>100.000	>100.000	80.000 ¹
		temperature at t _c -point [°C]	60	70	75 ¹

¹ Thermal management regulation active

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QUICKTRONIC® INTELLIGENT DALI DIM – ECG dimmable for T8/26 mm lamps

ECG	Lamp		ECG ambient temperature (t _a)		
			40°C	50°C	60°C
QTi (DALI) 1x18 DIM	1xL 18W	lifetime [h]	>100.000	>100.000	>100.000
		temperature at t _c -point [°C]	45	55	65
	1xDULUX L 18W	lifetime [h]	>100.000	>100.000	>100.000
		temperature at t _c -point [°C]	45	55	65
QTi (DALI) 1x36 DIM	1xL 36W	lifetime [h]	>100.000	>100.000	>100.000
		temperature at t _c -point [°C]	50	60	70
	1xDULUX L 36W (XT)	lifetime [h]	>100.000	>100.000	>100.000
		temperature at t _c -point [°C]	50	60	70
QTi (DALI) 1x58 DIM	1xL 58W	lifetime [h]	>100.000	>100.000	>100.000
		temperature at t _c -point [°C]	50	60	70
QTi (DALI) 2x18 DIM	2xL 18W	lifetime [h]	>100.000	>100.000	>100.000
		temperature at t _c -point [°C]	50	60	70
	2xDULUX L 18W	lifetime [h]	>100.000	>100.000	>100.000
		temperature at t _c -point [°C]	50	60	70
QTi (DALI) 2x36 DIM	2xL 36W	lifetime [h]	>100.000	>100.000	90.000 ¹
		temperature at t _c -point [°C]	55	65	75 ¹
	2xDULUX L 36W (XT)	lifetime [h]	>100.000	>100.000	90.000 ¹
		temperature at t _c -point [°C]	55	65	75 ¹
QTi (DALI) 2x58 DIM	2xL 58W	lifetime [h]	>100.000	>100.000	90.000 ¹
		temperature at t _c -point [°C]	55	65	75 ¹
QTi (DALI) 3x18 DIM	3xL 18W	lifetime [h]	>100.000	>100.000	90.000
		temperature at t _c -point [°C]	55	65	75
QTi (DALI) 4x18 DIM	4xL 18W	lifetime [h]	>100.000	>100.000	90.000
		temperature at t _c -point [°C]	55	65	75

¹ Thermal management regulation active

QUICKTRONIC® INTELLIGENT (DALI) DIM – ECG dimmable for CFL

ECG	Lamp		ECG ambient temperature (t _a)		
			40°C	50°C	60°C
QTi (DALI)-T/E 1x18-57 DIM	1xDULUX T/E 18W	lifetime [h]	>100.000	>100.000	>100.000
		temperature at t _c -point [°C]	50	60	70
	1xDULUX D/E 26W (XT)	lifetime [h]	>100.000	>100.000	90.000
		temperature at t _c -point [°C]	55	65	75
	1xDULUX T/E 26W (Constant)	lifetime [h]	>100.000	>100.000	90.000
		temperature at t _c -point [°C]	55	65	75
	1xDULUX T/E 32W (Constant, XT)	lifetime [h]	>100.000	>100.000	90.000
		temperature at t _c -point [°C]	55	65	75
	1xDULUX T/E 42W (Constant, XT)	lifetime [h]	>100.000	>100.000	90.000
		temperature at t _c -point [°C]	55	65	75
	1xDULUX T/E 57W (Constant)	lifetime [h]	>100.000	>100.000	90.000
		temperature at t _c -point [°C]	60	65	75
	1xFC 22W	lifetime [h]	>100.000	>100.000	90.000
		temperature at t _c -point [°C]	55	65	75
	1xFC 40W	lifetime [h]	>100.000	>100.000	90.000
		temperature at t _c -point [°C]	55	65	75
	1xDULUX L 24W	lifetime [h]	>100.000	>100.000	90.000
		temperature at t _c -point [°C]	55	65	75
	1xDULUX L 40W	lifetime [h]	>100.000	>100.000	90.000
		temperature at t _c -point [°C]	55	65	75

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QTi (DALI)-T/E 2x18-42 DIM	2xDULUX T/E 18W	lifetime [h]	>100.000	>100.000	>100.000
		temperature at t _c -point [°C]	55	65	70
	2xDULUX D/E 26W (XT)	lifetime [h]	>100.000	>100.000	80.000 ¹
		temperature at t _c -point [°C]	60	70	75 ¹
	2xDULUX T/E 26W (Constant)	lifetime [h]	>100.000	>100.000	80.000 ¹
		temperature at t _c -point [°C]	60	70	75 ¹
	2xDULUX T/E 32W (Constant, XT)	lifetime [h]	>100.000	>100.000	80.000 ¹
		temperature at t _c -point [°C]	60	70	75 ¹
	2xDULUX T/E 42W (Constant, XT)	lifetime [h]	>100.000	>100.000	80.000 ¹
		temperature at t _c -point [°C]	60	70	75 ¹
	2xFC 22W	lifetime [h]	>100.000	>100.000	80.000 ¹
		temperature at t _c -point [°C]	60	70	75 ¹
	2xFC 40W	lifetime [h]	>100.000	>100.000	80.000 ¹
		temperature at t _c -point [°C]	60	70	75 ¹

¹ Thermal management regulation active

QUICKTRONIC® DIM – ECG dimmable 1...10 V for T5/16 mm lamps

ECG	Lamp		ECG ambient temperature (t _a)		
			40°C	50°C	60°C
QT 1x28 DIM	1xHE 28W	lifetime [h]	>100.000	>100.000	>100.000
		temperature at t _c -point [°C]	50	60	70
	1xHE 28W SLS	lifetime [h]	>100.000	>100.000	>100.000
		temperature at t _c -point [°C]	50	60	70
	1xHE 25W ES	lifetime [h]	>100.000	>100.000	>100.000
		temperature at t _c -point [°C]	50	60	70
QT 1x35 DIM	1xDULUX L 26W HE	lifetime [h]	>100.000	>100.000	>100.000
		temperature at t _c -point [°C]	50	60	70
	1xDULUX L 28W HE	lifetime [h]	>100.000	>100.000	>100.000
		temperature at t _c -point [°C]	50	60	70
	1xHE 35W	lifetime [h]	>100.000	>100.000	>100.000
		temperature at t _c -point [°C]	50	60	70
QT 1x49 DIM	1xHE 32W ES	lifetime [h]	>100.000	>100.000	>100.000
		temperature at t _c -point [°C]	50	60	70
	1xHO 49W	lifetime [h]	>100.000	>100.000	>100.000
		temperature at t _c -point [°C]	50	60	70
	1xHO 49W XT	lifetime [h]	>100.000	>100.000	>100.000
		temperature at t _c -point [°C]	50	60	70
QT 1x54 DIM	1xHO 49W Constant	lifetime [h]	>100.000	>100.000	>100.000
		temperature at t _c -point [°C]	50	60	70
	1xHO 45W ES	lifetime [h]	>100.000	>100.000	>100.000
		temperature at t _c -point [°C]	50	60	70
	1xHO 54W	lifetime [h]	>100.000	>100.000	>100.000
		temperature at t _c -point [°C]	50	60	70
QT 1x54 DIM	1xHO 54W SLS	lifetime [h]	>100.000	>100.000	>100.000
		temperature at t _c -point [°C]	50	60	70
	1xHO 54W Constant	lifetime [h]	>100.000	>100.000	>100.000
		temperature at t _c -point [°C]	50	60	70
	1xHO 54W XT	lifetime [h]	>100.000	>100.000	>100.000
		temperature at t _c -point [°C]	50	60	70
QT 1x54 DIM	1xHO 50W ES	lifetime [h]	>100.000	>100.000	>100.000
		temperature at t _c -point [°C]	50	60	70

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QT 1x80 DIM	1xHO 80W	lifetime [h]	>100.000	>100.000	90.000
		temperature at t_c -point [°C]	55	65	75
	1xHO 80W Constant	lifetime [h]	>100.000	>100.000	90.000
		temperature at t_c -point [°C]	55	65	75
	1xHO 80W XT	lifetime [h]	>100.000	>100.000	90.000
		temperature at t_c -point [°C]	55	65	75
	1xHO 73W ES	lifetime [h]	>100.000	>100.000	90.000
		temperature at t_c -point [°C]	55	65	75
QT 2x28 DIM	2xHE 28W	lifetime [h]	>100.000	>100.000	>100.000
		temperature at t_c -point [°C]	50	60	70
	2xHE 28W SLS	lifetime [h]	>100.000	>100.000	>100.000
		temperature at t_c -point [°C]	50	60	70
	2xHE 25W ES	lifetime [h]	>100.000	>100.000	>100.000
		temperature at t_c -point [°C]	50	60	70
	2xDULUX L 26W HE	lifetime [h]	>100.000	>100.000	>100.000
		temperature at t_c -point [°C]	50	60	70
QT 2x35 DIM	2xHE 35W	lifetime [h]	>100.000	>100.000	>100.000
		temperature at t_c -point [°C]	50	60	70
	2xHE 32W ES	lifetime [h]	>100.000	>100.000	>100.000
		temperature at t_c -point [°C]	50	60	70
QT 2x49 DIM	2xHO 49W	lifetime [h]	>100.000	>100.000	>100.000
		temperature at t_c -point [°C]	50	60	70
	2xHO 49W Constant	lifetime [h]	>100.000	>100.000	>100.000
		temperature at t_c -point [°C]	50	60	70
	2xHO 49W XT	lifetime [h]	>100.000	>100.000	>100.000
		temperature at t_c -point [°C]	50	60	70
QT 2x54 DIM	2xHO 45W ES	lifetime [h]	>100.000	>100.000	>100.000
		temperature at t_c -point [°C]	50	60	70
	2xHO 54W	lifetime [h]	>100.000	>100.000	90.000
		temperature at t_c -point [°C]	55	65	75
	2xHO 54W SLS	lifetime [h]	>100.000	>100.000	90.000
		temperature at t_c -point [°C]	55	65	75
	2xHO 54W Constant	lifetime [h]	>100.000	>100.000	90.000
		temperature at t_c -point [°C]	55	65	75
QT 2x80 DIM	2xHO 54W XT	lifetime [h]	>100.000	>100.000	90.000
		temperature at t_c -point [°C]	55	65	75
	2xHO 50W ES	lifetime [h]	>100.000	>100.000	90.000
		temperature at t_c -point [°C]	55	65	75
	2xHO 80W	lifetime [h]	>100.000	>100.000	80.000
		temperature at t_c -point [°C]	60	70	75
	2xHO 80W Constant	lifetime [h]	>100.000	>100.000	80.000
		temperature at t_c -point [°C]	60	70	75
	2xHO 80W XT	lifetime [h]	>100.000	>100.000	80.000
		temperature at t_c -point [°C]	60	70	75
QT 2x80 DIM	2xHO 73W ES	lifetime [h]	>100.000	>100.000	80.000
		temperature at t_c -point [°C]	60	70	75
	2xDULUX L 80 W	lifetime [h]	>100.000	>100.000	80.000
		temperature at t_c -point [°C]	60	70	75
	2xDULUX L 80W Constant	lifetime [h]	>100.000	>100.000	80.000
		temperature at t_c -point [°C]	60	70	75

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ECG	Lamp		ECG ambient temperature (t _a)		
			40°C	50°C	60°C
QT 1x18 DIM	1xL 18W	lifetime [h]	>100.000	>100.000	>100.000
		temperature at t _c -point [°C]	50	60	70
	1xDULUX L 18W	lifetime [h]	>100.000	>100.000	>100.000
		temperature at t _c -point [°C]	50	60	70
QT 1x36 DIM	1xL 36W	lifetime [h]	>100.000	>100.000	>100.000
		temperature at t _c -point [°C]	50	60	70
	1xDULUX L 36W	lifetime [h]	>100.000	>100.000	>100.000
		temperature at t _c -point [°C]	50	60	70
QT 1x58 DIM	1xL 58W	lifetime [h]	>100.000	>100.000	90.000
		temperature at t _c -point [°C]	55	65	75
QT 2x18 DIM	2xL 18W	lifetime [h]	>100.000	>100.000	90.000
		temperature at t _c -point [°C]	55	65	75
	2xDULUX L 18W	lifetime [h]	>100.000	>100.000	90.000
		temperature at t _c -point [°C]	55	65	75
QT 2x36 DIM	2xL 36W	lifetime [h]	>100.000	>100.000	90.000
		temperature at t _c -point [°C]	55	65	75
	2xDULUX L 36W	lifetime [h]	>100.000	>100.000	90.000
		temperature at t _c -point [°C]	55	65	75
QT 2x58 DIM	2xL 58W	lifetime [h]	>100.000	>100.000	80.000
		temperature at t _c -point [°C]	60	70	75

Status: Jun-14

ECG lifetime V 1.0

LE MK-EM T-ECG / LMS Components; Edition: V 1.0. Subject to change without notice.
Despite careful review, the possibility of mistakes cannot be excluded – no guaranty will be provided.

