

System overview

EM powerLED 2W / 4W

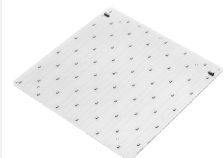
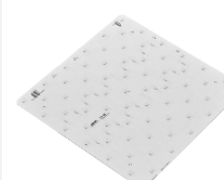


System components overview

LED light modules



TALEXXmodule STARK QLE G3 CLASSIC / TALEXXmodule STARK QLE G3 CLASSIC EM

LED light modules for general and emergency lighting

Designation variants and article number	Most important facts	Images																
<p>CLASSIC LED light module for general lighting</p> <p>STARK-QLE-G3-270-1250-830-CLA, 28000384 STARK-QLE-G3-270-1250-840-CLA, 28000385 STARK-QLE-G3-270-1250-850-CLA, 28000386 STARK-QLE-G3-250-1250-830-CLA, 28000387 STARK-QLE-G3-250-1250-840-CLA, 28000388</p>	<ul style="list-style-type: none"> ▪ Ra > 80 ▪ MacAdam 3 ▪ Push terminals ▪ Self cooling ▪ 270 x 270 x 5.5 mm <p>Typ. luminous flux at tp 45°C:</p> <table border="1"> <thead> <tr> <th></th> <th>250 mA / 7.8 W</th> <th>300 mA / 9.5 W</th> <th>350 mA / 11.3 W</th> </tr> </thead> <tbody> <tr> <td>3.000 K</td> <td>1,210 lm</td> <td>1,430 lm</td> <td>1,670 lm</td> </tr> <tr> <td>4.000 K</td> <td>1,250 lm</td> <td>1,480 lm</td> <td>1,730 lm</td> </tr> <tr> <td>5.000 K</td> <td>1,300 lm</td> <td>1,540 lm</td> <td>1,790 lm</td> </tr> </tbody> </table>		250 mA / 7.8 W	300 mA / 9.5 W	350 mA / 11.3 W	3.000 K	1,210 lm	1,430 lm	1,670 lm	4.000 K	1,250 lm	1,480 lm	1,730 lm	5.000 K	1,300 lm	1,540 lm	1,790 lm	 <p>QLE G3 CLASSIC</p>  <p>QLE G3 CLASSIC EM</p>
	250 mA / 7.8 W	300 mA / 9.5 W	350 mA / 11.3 W															
3.000 K	1,210 lm	1,430 lm	1,670 lm															
4.000 K	1,250 lm	1,480 lm	1,730 lm															
5.000 K	1,300 lm	1,540 lm	1,790 lm															
<p>CLASSIC EM Combined LED light modules for general and emergency lighting with integrated separate wired emergency LEDs operated by EM powerLED</p> <p>STARK-QLE-G3-270-1250-830-CLA-EM, 28000389 STARK-QLE-G3-270-1250-840-CLA-EM, 28000390</p>																		







TALEXXmodule STARK LLE G3 24 CLASSIC / TALEXXmodule STARK LLE G3 24 CLASSIC EM

LED light modules for general and emergency lighting

Designation variants and article number	Most important facts	Images																
<p>CLASSIC LED light module for general lighting</p> <p>STARK-LLE-G3-24-280-1250-830-CLA, 28000395 STARK-LLE-G3-24-280-1250-840-CLA, 28000396 STARK-LLE-G3-24-280-1250-850-CLA, 28000397</p> <p>CLASSIC EM Combined LED light module for general and emergency lighting with integrated separate wired emergency LEDs operated by EM powerLED</p> <p>STARK-LLE-G3-24-280-1250-830-CLA-EM, 28000402 STARK-LLE-G3-24-280-1250-840-CLA-EM, 28000403</p>	<ul style="list-style-type: none"> ▪ Ra > 80 ▪ MacAdam 3 ▪ Push terminals ▪ Cooling: see database ▪ 279,70 x 23,80 x 6,1 mm <p>Typ. luminous flux at tp 65°C:</p> <table border="1" data-bbox="691 674 1211 837"> <thead> <tr> <th></th> <th>250 mA / 7,8 W</th> <th>300 mA / 9,6 W</th> <th>350 mA / 11,4 W</th> </tr> </thead> <tbody> <tr> <td>3.000 K</td> <td>1.130 lm</td> <td>1.320 lm</td> <td>1.500 lm</td> </tr> <tr> <td>4.000 K</td> <td>1.170 lm</td> <td>1.360 lm</td> <td>1.550 lm</td> </tr> <tr> <td>5.000 K</td> <td>1.220 lm</td> <td>1.420 lm</td> <td>1.610 lm</td> </tr> </tbody> </table>		250 mA / 7,8 W	300 mA / 9,6 W	350 mA / 11,4 W	3.000 K	1.130 lm	1.320 lm	1.500 lm	4.000 K	1.170 lm	1.360 lm	1.550 lm	5.000 K	1.220 lm	1.420 lm	1.610 lm	 <p>LLE G3 24 CLASSIC</p>  <p>LLE G3 24 CLASSIC EM</p>
	250 mA / 7,8 W	300 mA / 9,6 W	350 mA / 11,4 W															
3.000 K	1.130 lm	1.320 lm	1.500 lm															
4.000 K	1.170 lm	1.360 lm	1.550 lm															
5.000 K	1.220 lm	1.420 lm	1.610 lm															


TALEX module STARK CLE CLASSIC EM

Combined LED light module for general and emergency lighting

Designation variants and article number	Most important facts	Images												
<p>CLASSIC EM Combined LED light module for general and emergency lighting with integrated separate wired emergency LEDs operated by EM powerLED</p> <p>STARK-CLE-220-1500-830-CLA-EM, 28000106 STARK-CLE-220-1500-840-CLA-EM, 28000107 STARK-CLE-220-1500-830-CLA-EM-SO, 28000108 STARK-CLE-220-1500-840-CLA-EM-SO, 28000109</p>	<ul style="list-style-type: none"> ▪ Ra > 80 ▪ MacAdam 3 ▪ Push terminals ▪ Self cooling ▪ 193.5 x 191 x 6.1 mm <p>STARK-CLE-220-1500... Typ. luminous flux at tp 65°C:</p> <table border="1" data-bbox="692 663 1193 792"> <tr> <td></td> <td>350 mA / 10,3 W</td> <td>470 mA / 14,3 W</td> <td>500 mA / 15,3 W</td> </tr> <tr> <td>3.000 K</td> <td>1.300 lm</td> <td>1.650 lm</td> <td>1.750 lm</td> </tr> <tr> <td>4.000 K</td> <td>1.350 lm</td> <td>1.700 lm</td> <td>1.800 lm</td> </tr> </table>		350 mA / 10,3 W	470 mA / 14,3 W	500 mA / 15,3 W	3.000 K	1.300 lm	1.650 lm	1.750 lm	4.000 K	1.350 lm	1.700 lm	1.800 lm	 <p>STARK-CLE-220-EM</p>  <p>STARK-CLE-220-EM-SO</p>
	350 mA / 10,3 W	470 mA / 14,3 W	500 mA / 15,3 W											
3.000 K	1.300 lm	1.650 lm	1.750 lm											
4.000 K	1.350 lm	1.700 lm	1.800 lm											
<p>STARK-CLE-315-4000-830-CLA-EM, 28000303 STARK-CLE-315-4000-840-CLA-EM, 28000304 STARK-CLE-315-4000-830-CLA-EM-SO, 28000305 STARK-CLE-315-4000-840-CLA-EM-SO, 28000306</p>	<p>STARK-CLE-315-4000... Typ. luminous flux at tp 65°C:</p> <table border="1" data-bbox="692 887 1069 1016"> <tr> <td></td> <td>700 mA / 21,7 W</td> <td>1.050 mA / 34,1 W</td> </tr> <tr> <td>3.000 K</td> <td>2.500 lm</td> <td>3.700 lm</td> </tr> <tr> <td>4.000 K</td> <td>2.650 lm</td> <td>3.900 lm</td> </tr> </table>		700 mA / 21,7 W	1.050 mA / 34,1 W	3.000 K	2.500 lm	3.700 lm	4.000 K	2.650 lm	3.900 lm	 <p>STARK-CLE-315-EM</p>			
	700 mA / 21,7 W	1.050 mA / 34,1 W												
3.000 K	2.500 lm	3.700 lm												
4.000 K	2.650 lm	3.900 lm												
<p>STARK-CLE-360-4000-830-CLA-EM, 28000114 STARK-CLE-360-4000-840-CLA-EM, 28000115 STARK-CLE-360-4000-830-CLA-EM-SO, 28000116 STARK-CLE-360-4000-840-CLA-EM-SO, 28000117</p>	<p>STARK-CLE-360-4000... Typ. luminous flux at tp 65°C:</p> <table border="1" data-bbox="692 1111 1069 1240"> <tr> <td></td> <td>700 mA / 21,7 W</td> <td>1.050 mA / 34,1 W</td> </tr> <tr> <td>3.000 K</td> <td>2.500 lm</td> <td>3.550 lm</td> </tr> <tr> <td>4.000 K</td> <td>2.650 lm</td> <td>3.750 lm</td> </tr> </table>		700 mA / 21,7 W	1.050 mA / 34,1 W	3.000 K	2.500 lm	3.550 lm	4.000 K	2.650 lm	3.750 lm	 <p>STARK-CLE-315-EM-SO</p>  <p>STARK-CLE-360-EM</p>			
	700 mA / 21,7 W	1.050 mA / 34,1 W												
3.000 K	2.500 lm	3.550 lm												
4.000 K	2.650 lm	3.750 lm												
		 <p>STARK-CLE-360-EM-SO</p>												

TALEXXmodule SLE GEN3 CLASSIC / TALEXXmodule SLE GEN3 CLASSIC EM



LED light modules for general and emergency lighting

Designation variants and article number	Most important facts	Images																		
<p>CLASSIC LED light module for general lighting</p> <p>STARK-SLE-G3-19-2000-830-CLA, 89601800 STARK-SLE-G3-19-2000-840-CLA, 89601801 STARK-SLE-G3-23-3000-830-CLA, 89601802 STARK-SLE-G3-23-3000-840-CLA, 89601803</p> <p>CLASSIC EM Combined LED light module for general and emergency lighting with integrated separate wired emergency LEDs operated by EM powerLED</p> <p>STARK-SLE-G3-19-2000-830-CLA-EM, 89601868 STARK-SLE-G3-19-2000-840-CLA-EM, 89601869 STARK-SLE-G3-23-3000-830-CLA-EM, 89601870 STARK-SLE-G3-23-3000-840-CLA-EM, 89601871</p>	<ul style="list-style-type: none"> ▪ MacAdam 3 ▪ Fixing holes for M3 screws ▪ Cooling: see data sheet ▪ Ø 50 mm, height: 7,2 mm <p>STARK-SLE-G3-19-2000... Typ. luminous flux at tp 65°C::</p> <table border="1" data-bbox="683 663 1066 790"> <tr> <td></td> <td>350 mA / 11,9 W</td> <td>1050 mA / 40,9 W</td> </tr> <tr> <td>3.000 K</td> <td>1.300 lm</td> <td>3.250 lm</td> </tr> <tr> <td>4.000 K</td> <td>1.500 lm</td> <td>3.750 lm</td> </tr> </table> <p>STARK-SLE-G3-23-3000... Typ. luminous flux at tp 65°C:</p> <table border="1" data-bbox="683 882 1066 1010"> <tr> <td></td> <td>500 mA / 16,9 W</td> <td>1400 mA / 52,8 W</td> </tr> <tr> <td>3.000 K</td> <td>1.900 lm</td> <td>4.459 lm</td> </tr> <tr> <td>4.000 K</td> <td>2.100 lm</td> <td>5.100 lm</td> </tr> </table>		350 mA / 11,9 W	1050 mA / 40,9 W	3.000 K	1.300 lm	3.250 lm	4.000 K	1.500 lm	3.750 lm		500 mA / 16,9 W	1400 mA / 52,8 W	3.000 K	1.900 lm	4.459 lm	4.000 K	2.100 lm	5.100 lm	 <p>SLE GEN3 CLASSIC / SLE GEN3 24 CLASSIC EM</p>
	350 mA / 11,9 W	1050 mA / 40,9 W																		
3.000 K	1.300 lm	3.250 lm																		
4.000 K	1.500 lm	3.750 lm																		
	500 mA / 16,9 W	1400 mA / 52,8 W																		
3.000 K	1.900 lm	4.459 lm																		
4.000 K	2.100 lm	5.100 lm																		

LED emergency control gears



EM powerLED 2 W

LED emergency control gear for single battery

Designation variants and article number	Most important facts	Images
<p>Screw fixing EM powerLED 2 W BASIC, 89899859 EM powerLED 2 W ST, 89899861 EM powerLED 2 W PRO EZ-3, 89800030</p> <p>Clip fixing EM powerLED 2 W BASIC, 89899866 EM powerLED 2 W ST, 89899868 EM powerLED 2 W PRO EZ-3, 89800032</p>	<ul style="list-style-type: none">▪ For mains and emergency operation▪ Output current: 600 mA (1 LED), 350 mA (2 LED in series)▪ 1 h, 2 h und 3 h rated duration▪ NiMH batteries▪ SELV▪ For luminaire installation▪ 139 x 30 x 21 mm (Screw fixing)▪ 127 x 30 x 21 mm (Clip fixing) <p>Test variants:</p> <ul style="list-style-type: none">▪ Manually tested (BASIC)▪ Automatically self tested (SELFTEST)▪ Automatically tested by a controller (DALI)	 <p>Screw fixing</p>  <p>Clip fixing</p>

EM powerLED 4 W

LED emergency control gear for single battery

Designation variants and article number	Most important facts	Images
<p>Screw fixing EM powerLED 4 W BASIC, 89800122 EM powerLED 4 W ST, 89800124 EM powerLED 4 W PRO EZ-3, 89800126</p> <p>Clip fixing EM powerLED 4 W BASIC, 89800121 EM powerLED 4 W ST, 89800123 EM powerLED 4 W PRO EZ-3, 89800125</p>	<ul style="list-style-type: none">▪ Non maintained operation▪ Output current: 1,000mA (1 LED), 700 mA (2 LED in series)▪ 1h, 2h und 3 h rated duration▪ NiMH and NiCd batteries▪ SELV▪ For luminaire installation▪ 139 x 30 x 21 mm (Screw fixing)▪ 127 x 30 x 21 mm (Clip fixing) <p>Test variants:</p> <ul style="list-style-type: none">▪ Manually tested (BASIC)▪ Automatically self tested (SELFTEST)▪ Automatically tested by a controller (DALI)	 <p>Screw fixing</p>  <p>Clip fixing</p>

LED control gear for mains operation

Vide „Selecting compatible mains control gear...” on the following pages.
For technical details go to the product's data sheet at www.tridonic.com

Possible combinations

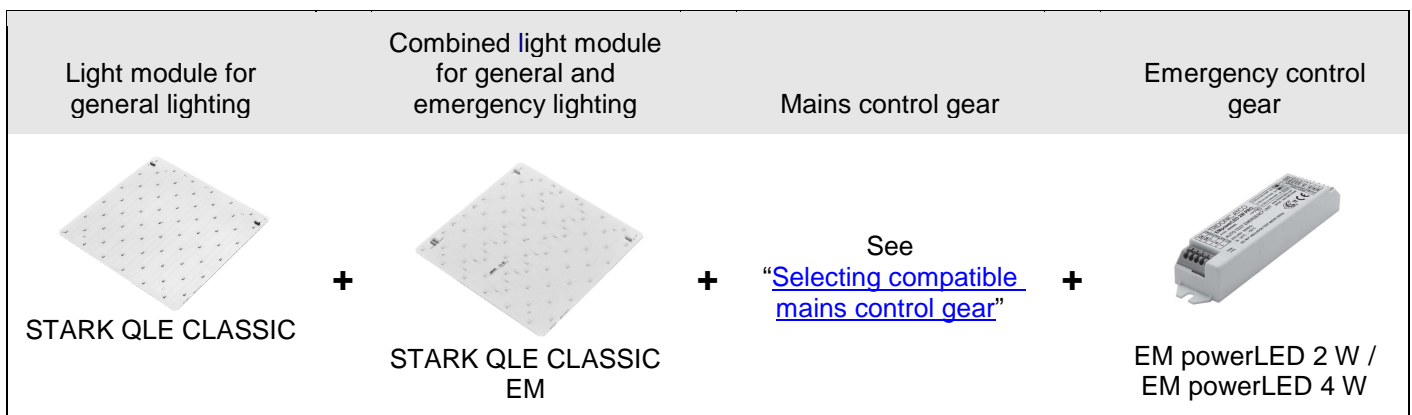
Notice:

The decision which variant of the EM powerLED (2W or 4W) is used for emergency lighting depends on the demanded emergency power.

Typically the emergency power is approximately 10% of the power achieved in general lighting. If the resulting luminous flux maintenance factor of the EM powerLED 2W in emergency mode is too low, the EM powerLED 4W can be used instead. However the higher light output requires more battery power.

TALEXXmodule QLE

LED light modules for general and emergency lighting



Operation parameter for different numbers of LED modules

The number of LED modules depends on the design of the luminaire.

As a rule in emergency operation one LED module of the luminaire is set up as a combined module with separate emergency LEDs (QLE EM). The emergency LEDs are operated with EM powerLED.

	Mains operation				Emergency operation*			
	Typ. forward current	Typ. power consumption	Typ. luminous flux at tp = 45 °C for		Light output ratio EM powerLED 2W		Light output ratio EM powerLED 4W	
			3,000K	4,000K	3,000K	4,000K	3,000K	4,000K

Number	[mA]	[W]	[lm]		[%]		[%]	
1	250	7,8	1.210	1.250	25,6	25,6	48,8	48,0
2	250	15,6	2.420	2.500	12,8	12,8	24,4	24,0
3	250	23,4	3.630	3.750	8,5	8,5	16,3	16,0
4	250	31,2	4.840	5.000	6,4	6,4	12,2	12,0
5	250	39	6.050	6.250	5,1	5,1	9,8	9,6
6	250	46,8	7.260	7.500	4,3	4,3	8,1	8,0

Number	[mA]	[W]	[lm]		[%]		[%]	
1	300	9,5	1.430	1.480	21,7	21,6	41,3	40,5
2	300	19	2.860	2.960	10,8	10,8	20,6	20,3
3	300	28,5	4.290	4.440	7,2	7,2	13,8	13,5
4	300	38	5.720	5.920	5,4	5,4	10,3	10,1
5	300	47,5	7.150	7.400	4,3	4,3	8,3	8,1
6	300	57	8.580	8.880	3,6	3,6	6,9	6,8

Number	[mA]	[W]	[lm]		[%]		[%]	
1	350	11,3	1.670	1.730	18,6	18,5	35,3	34,7
2	350	22,6	3.340	3.460	9,3	9,2	17,7	17,3
3	350	33,9	5.010	5.190	6,2	6,2	11,8	11,6
4	350	45,2	6.680	6.920	4,6	4,6	8,8	8,7
5	350	56,5	8.350	8.650	3,7	3,7	7,1	6,9
6	350	67,8	10.020	10.380	3,1	3,1	5,9	5,8

* One LED module of the luminaire acts as a combined module with separate emergency LEDs

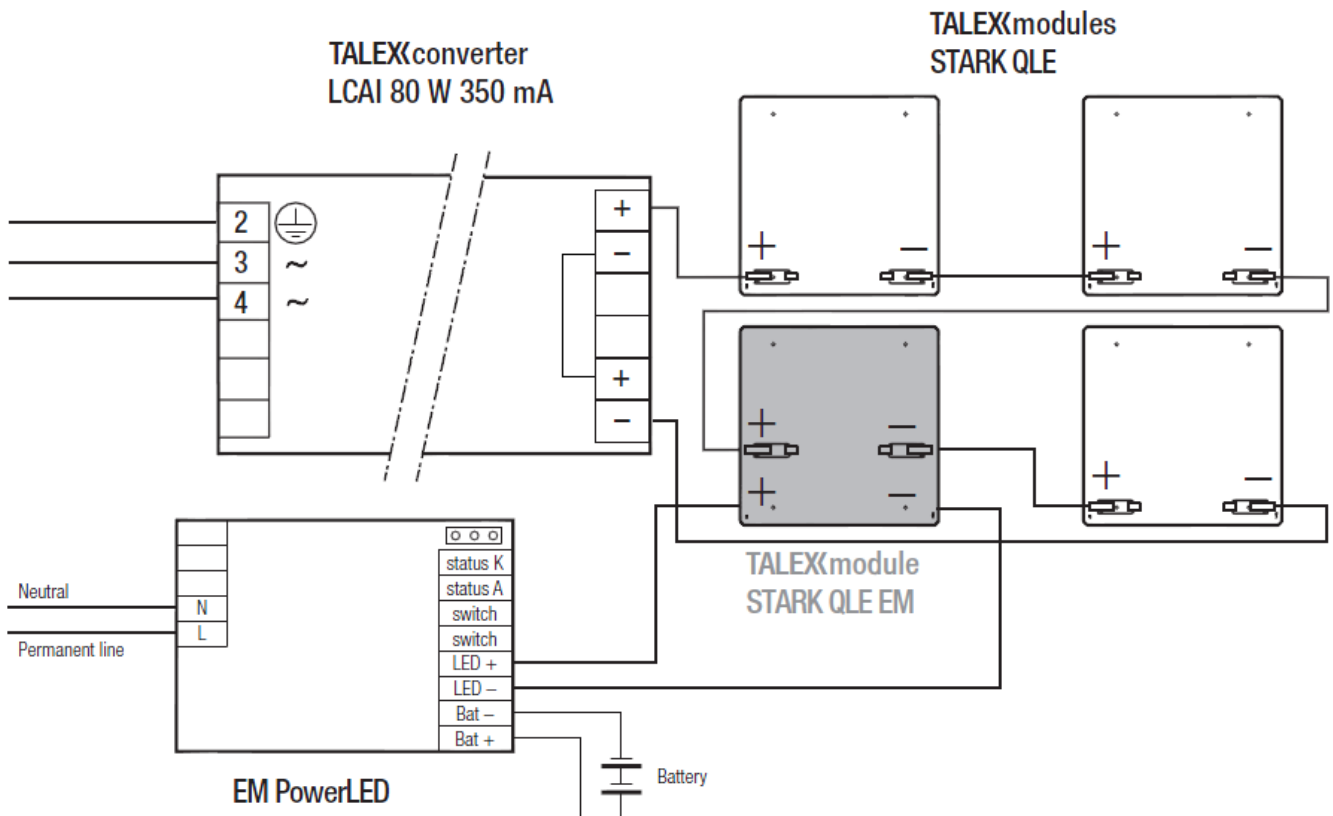
Selecting compatible mains control gear for TALEXmodule QLE

A list of compatible mains control gear can be found in the LED lamp matrix:

<http://www.tridonic.com/com/en/lamp-matrix.asp>

Wiring example

STARK QLE + STARK QLE EM + Mains control gear + EM powerLED



Note: For manually tested emergency lighting

Due to the fact that independent circuits are used for normal and emergency lighting it is important that the normal supply of the mains control gear is switched off together with the permanent emergency supply prior to checking the operation of the emergency LEDs.

If this is not done then it may not be possible to see that the emergency LEDs are operating.



Please refer to the EM powerLED 2W resp. EM powerLED 4W datasheet for further information.

Note: For emergency lighting with EM powerLED 2W:

With the mains operation function of EM powerLED 2W a simple Corridor Function can be realised. Please refer to the EM powerLED 2W datasheet for further information.

TALEXXmodule LLE24

LED light modules for general and emergency lighting

Light module for general lighting	Combined light module for general and emergency lighting	Mains control gear	Emergency control gear
 STARK LLE24 CLASSIC	+	+	 EM powerLED 2 W / EM powerLED 4 W
See "Selecting compatible mains control gear"			

Operation parameter for different numbers of LED modules

	Mains operation				Emergency operation*	
	Typ. forward current	Typ. power consumption	Typ. luminous flux at $t_p = 45\text{ °C}$ for		Light output ratio EM powerLED 4W	
			3,000K	4,000K	3,000K	4,000K

Number	[mA]	[W]	[lm]		[%]	
1	250	7,8	1.130	1.170	48,7	47,9
2	250	15,6	2.260	2.340	24,3	23,9
3	250	23,4	3.390	3.510	16,2	16,0
4	250	31,2	4.520	4.680	12,2	12,0
5	250	39	5.650	5.850	9,7	9,6
6	250	46,8	6.780	7.020	8,1	8,0

Number	[mA]	[W]	[lm]		[%]	
1	300	9,6	1.320	1.360	41,7	41,2
2	300	19,2	2.640	2.720	20,8	20,6
3	300	28,8	3.960	4.080	13,9	13,7
4	300	38,4	5.280	5.440	10,4	10,3
5	300	48	6.600	6.800	8,3	8,2
6	300	57,6	7.920	8.160	6,9	6,9

Number	[mA]	[W]	[lm]		[%]	
1	350	11,4	1500	1550	36,7	36,1
2	350	22,8	3000	3100	18,3	18,1
3	350	34,2	4500	4650	12,2	12,0
4	350	45,6	6000	6200	9,2	9,0
5	350	57	7500	7750	7,3	7,2

6	350	68,4	9000	9300	6,1	6,0
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* One LED module of the luminaire acts as a combined module with separate emergency LEDs

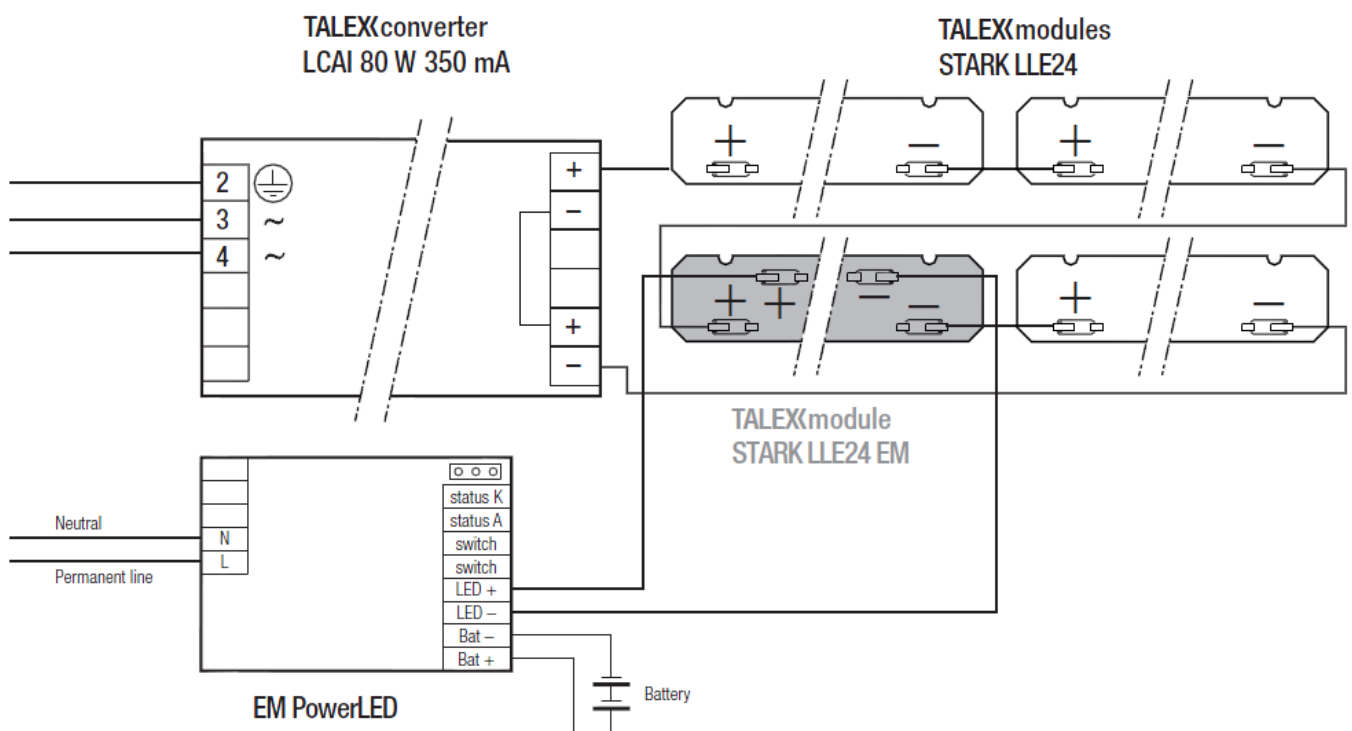
Selecting compatible mains control gear for TALEXmodule LLE24

A list of compatible mains control gear can be found in the LED lamp matrix:

<http://www.tridonic.com/com/en/lamp-matrix.asp>

Wiring example

STARK LLE24 + STARK LLE24 EM + Mains control gear + EM powerLED



Note: For manually tested emergency lighting

Due to the fact that independent circuits are used for normal and emergency lighting it is important that the normal supply of the mains control gear is switched off together with the permanent emergency supply prior to checking the operation of the emergency LEDs.

If this is not done then it may not be possible to see that the emergency LEDs are operating.








Please refer to the EM powerLED 2W resp. EM powerLED 4W datasheet for further information.

Note: For emergency lighting with EM powerLED 2W:

With the mains operation function of EM powerLED 2W a simple Corridor Function can be realised. Please refer to the EM powerLED 2W datasheet for further information.

TALEXXmodule CLE EM

LED light modules for general and emergency lighting

Combined light module for general and emergency lighting	Mains control gear	Emergency control gear
 STARK-CLE-220-EM - or -	See “Selecting compatible mains control gear”	 EM powerLED 2 W
 STARK-CLE-220-EM-SO - or -		
 STARK-CLE-315-EM - or -	+	+
 STARK-CLE-315-EM-SO - or -		
 STARK-CLE-360-EM - or -		
 STARK-CLE-360-EM-SO		

Operation parameter for one LED module

STARK CLE 220-1500 CLASSIC EM

		Mains operation			Emergency operation			
	Typ. forward current	Typ. power consumption	Typ. luminous flux at $t_p = 65\text{ °C}$ for		Light output ratio EM powerLED NM 1 W BASIC / EM powerLED 15 W BASIC CLE NiCD		Lichtstrom-Verhältnis EM powerLED 15 W BASIC CLE NiMH	
			3,000K	4,000K	3,000K	4,000K	3,000K	4,000K

Anzahl	[mA]	[W]	[lm]		[%]		[%]	
1	350	10,3	1.300	1.350	9,2	9,3	11,2	11,1
2	350	20,6	2.600	2.700	4,6	4,6	5,6	5,6
3	350	30,9	3.900	4.050	3,1	3,1	3,7	3,7
4	350	41,2	5.200	5.400	2,3	2,3	2,8	2,8
5	350	51,5	6.500	6.750	1,8	1,9	2,2	2,2
6	350	61,8	7.800	8.100	1,5	1,5	1,9	1,9

		Mains operation			Emergency operation			
	Typ. forward current	Typ. power consumption	Typ. luminous flux at $t_p = 65\text{ °C}$ for		Light output ratio EM powerLED 1 W		Light output ratio EM powerLED 2 W	
			3,000K	4,000K	3,000K	4,000K	3,000K	4,000K

Anzahl	[mA]	[W]	[lm]		[%]		[%]	
1	350	10,3	1.300	1.350	10,0	10,0	16,2	16,3
2	350	20,6	2.600	2.700	5,0	5,0	8,1	8,1
3	350	30,9	3.900	4.050	3,3	3,3	5,4	5,4
4	350	41,2	5.200	5.400	2,5	2,5	4,0	4,1
5	350	51,5	6.500	6.750	2,0	2,0	3,2	3,3
6	350	61,8	7.800	8.100	1,7	1,7	2,7	2,7

		Mains operation			Emergency operation			
	Typ. forward current	Typ. power consumption	Typ. luminous flux at tp = 65 °C for		Light output ratio EM powerLED NM 1 W BASIC / EM powerLED 15 W BASIC CLE NiCD		Light output ratio EM powerLED 15 W BASIC CLE NiMH	
			3,000K	4,000K	3,000K	4,000K	3,000K	4,000K

Anzahl	[mA]	[W]	[lm]		[%]		[%]	
1	470	14,3	1.650	1.700	7,3	7,4	8,8	8,8
2	470	28,6	3.300	3.400	3,6	3,7	4,4	4,4
3	470	42,9	4.950	5.100	2,4	2,5	2,9	2,9
4	470	57,2	6.600	6.800	1,8	1,8	2,2	2,2
5	470	71,5	8.250	8.500	1,5	1,5	1,8	1,8
6	470	85,8	9.900	10.200	1,2	1,2	1,5	1,5

		Mains operation			Emergency operation			
	Typ. forward current	Typ. power consumption	Typ. luminous flux at tp = 65 °C for		Light output ratio EM powerLED 1 W		Light output ratio EM powerLED 2 W	
			3,000K	4,000K	3,000K	4,000K	3,000K	4,000K

Anzahl	[mA]	[W]	[lm]		[%]		[%]	
1	470	14,3	1.650	1.700	7,9	7,9	12,7	12,9
2	470	28,6	3.300	3.400	3,9	4,0	6,4	6,5
3	470	42,9	4.950	5.100	2,6	2,6	4,2	4,3
4	470	57,2	6.600	6.800	2,0	2,0	3,2	3,2
5	470	71,5	8.250	8.500	1,6	1,6	2,5	2,6
6	470	85,8	9.900	10.200	1,3	1,3	2,1	2,2

		Mains operation			Emergency operation			
	Typ. forward current	Typ. power consumption	Typ. luminous flux at tp = 65 °C for		Light output ratio EM powerLED NM 1 W BASIC / EM powerLED 15 W BASIC CLE NiCD		Light output ratio EM powerLED 15 W BASIC CLE NiMH	
			3,000K	4,000K	3,000K	4,000K	3,000K	4,000K

Anzahl	[mA]	[W]	[lm]		[%]		[%]	
1	500	15,3	1.750	1.800	6,9	6,9	8,3	8,3
2	500	30,6	3.500	3.600	3,4	3,5	4,1	4,2
3	500	45,9	5.250	5.400	2,3	2,3	2,8	2,8
4	500	61,2	7.000	7.200	1,7	1,7	2,1	2,1
5	500	76,5	8.750	9.000	1,4	1,4	1,7	1,7
6	500	91,8	10.500	10.800	1,1	1,2	1,4	1,4

		Mains operation			Emergency operation			
	Typ. forward current	Typ. power consumption	Typ. luminous flux at tp = 65 °C for		Light output ratio EM powerLED 1 W		Light output ratio EM powerLED 2 W	
			3,000K	4,000K	3,000K	4,000K	3,000K	4,000K

Anzahl	[mA]	[W]	[lm]		[%]		[%]	
1	500	15,3	1.750	1.800	7,4	7,5	12,0	12,2
2	500	30,6	3.500	3.600	3,7	3,8	6,0	6,1
3	500	45,9	5.250	5.400	2,5	2,5	4,0	4,1
4	500	61,2	7.000	7.200	1,9	1,9	3,0	3,1
5	500	76,5	8.750	9.000	1,5	1,5	2,4	2,4
6	500	91,8	10.500	10.800	1,2	1,3	2,0	2,0

**STARK CLE 315-4000 CLASSIC EM /
STARK CLE 360-4000 CLASSIC EM**

	Mains operation				Emergency operation			
	Typ. forward current	Typ. power consumption	Typ. luminous flux at tp = 65 °C for		Light output ratio EM powerLED 2W		Light output ratio EM powerLED 4W	
			3,000K	4,000K	3,000K	4,000K	3,000K	4,000K

Anzahl	[mA]	[W]	[lm]		[%]		[%]	
1	700	21,7	2.500	2.650	9,4	9,1	14,2	13,8
2	700	43,4	5.000	5.300	4,7	4,5	7,1	6,9
3	700	65,1	7.500	7.950	3,1	3,0	4,7	4,6
4	700	86,8	10.000	10.600	2,4	2,3	3,6	3,4
5	700	108,5	12.500	13.250	1,9	1,8	2,8	2,8
6	700	130,2	15.000	15.900	1,6	1,5	2,4	2,3

Anzahl	[mA]	[W]	[lm]		[%]		[%]	
1	1.050	34,1	3.600	3.750	6,5	6,4	9,9	9,7
2	1.050	68,2	7.200	7.500	3,3	3,2	4,9	4,9
3	1.050	102,3	10.800	11.250	2,2	2,1	3,3	3,2
4	1.050	136,4	14.400	15.000	1,6	1,6	2,5	2,4
5	1.050	170,5	18.000	18.750	1,3	1,3	2,0	1,9
6	1.050	204,6	21.600	22.500	1,1	1,1	1,6	1,6

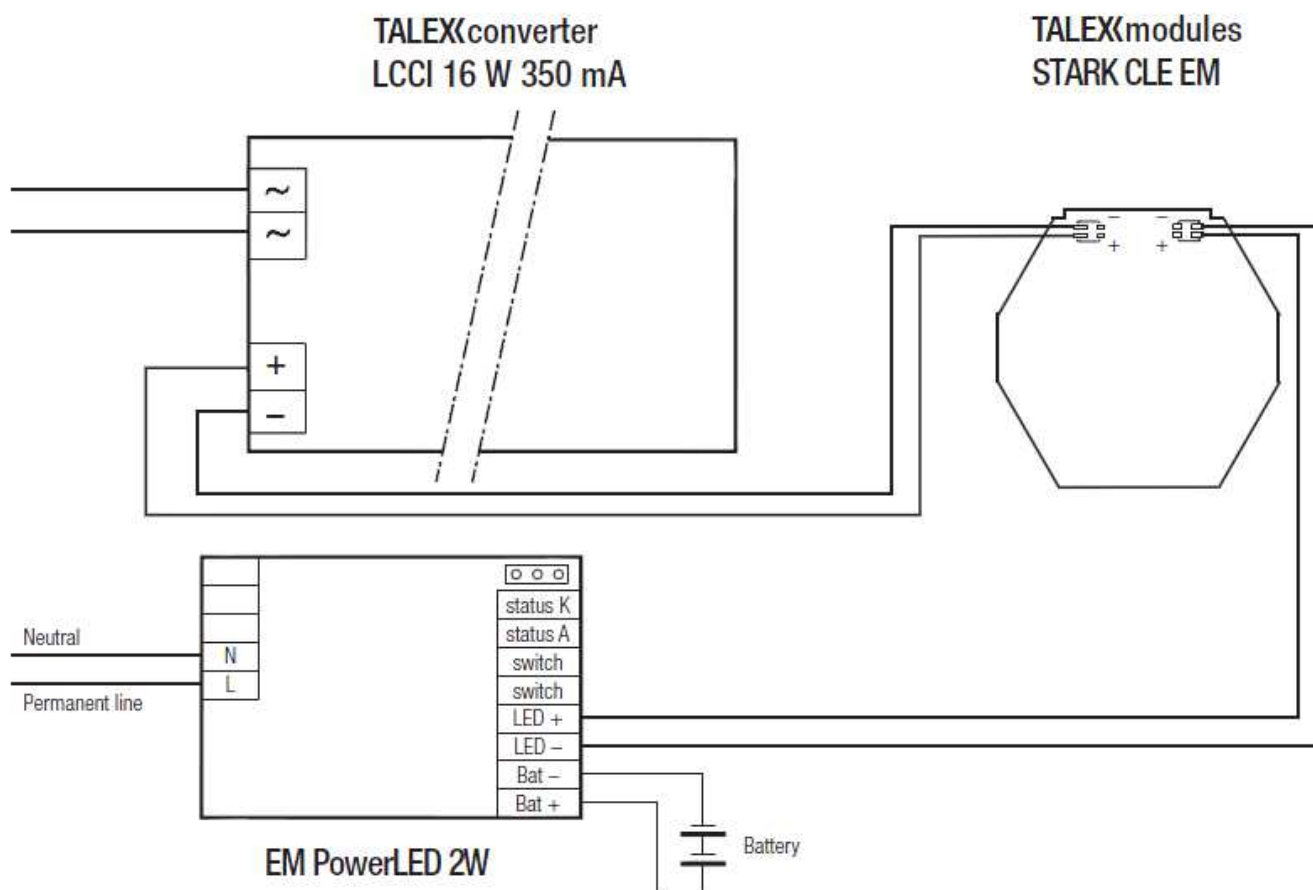
Selecting compatible mains control gear for TALEXmodule CLE

A list of compatible mains control gear can be found in the LED lamp matrix:

<http://www.tridonic.com/com/en/lamp-matrix.asp>

Wiring example

STARK CLE EM + Mains control gear + EM powerLED



Note: For manually tested emergency lighting

Due to the fact that independent circuits are used for normal and emergency lighting it is important that the normal supply of the mains control gear is switched off together with the permanent emergency supply prior to checking the operation of the emergency LEDs.

If this is not done then it may not be possible to see that the emergency LEDs are operating.

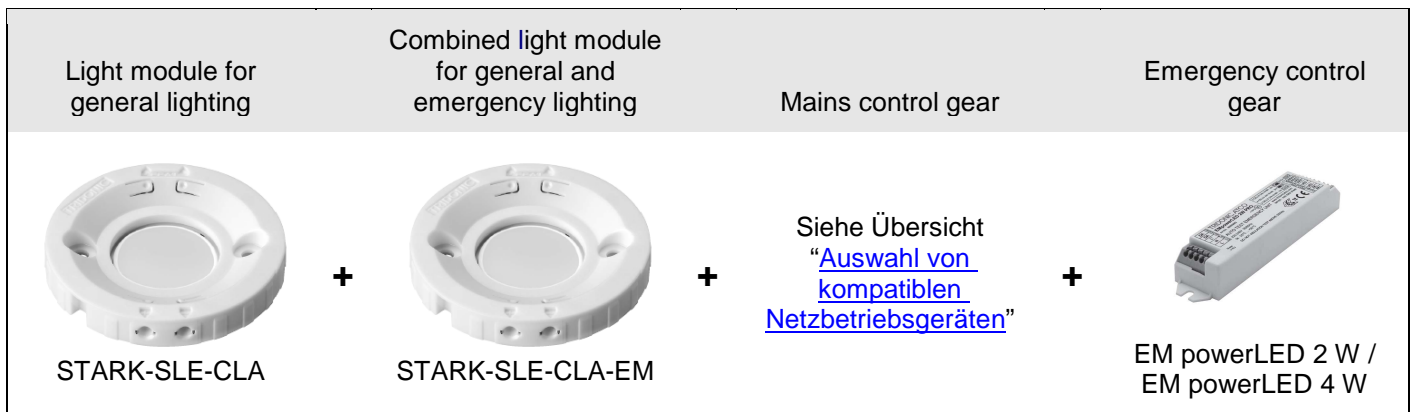
Please refer to the EM powerLED 2W resp. EM powerLED 4W datasheet for further information.

Note: For emergency lighting with EM powerLED 2W:

With the mains operation function of EM powerLED 2W a simple Corridor Function can be realised. Please refer to the EM powerLED 2W datasheet for further information.

TALEXXmodule SLE GEN3 CLASSIC / TALEXXmodule SLE GEN3 CLASSIC EM

LED light modules for general and emergency lighting



Operation parameter for one LED module

STARK-SLE-G3-19-2000

	Mains operation			Emergency operation		
	Typ. forward current	Typ. power consumption	Typ. luminous flux at $t_p = 65\text{ °C}$ for		Light output ratio EM powerLED 2W	
			3.000K	4.000K	3.000K	4.000K

Number	[mA]	[W]	[lm]		[%]	
1	350	11,9	1.300	1.500	17,3	16,0

Anzahl	[mA]	[W]	[lm]		[%]	
1	1.050	40,9	3.250	3.750	6,9	6,4

STARK-SLE-G3-23-3000

	Mains operation			Emergency operation		
	Typ. forward current	Typ. power consumption	Typ. luminous flux at $t_p = 65\text{ °C}$ for		Light output ratio EM powerLED 4W	
			3.000K	4.000K	3.000K	4.000K

Number	[mA]	[W]	[lm]		[%]	
1	500	16,9	1.900	2.100	22,1	21,0

Anzahl	[mA]	[W]	[lm]		[%]	
1	1.400	52,8	4.450	5.100	9,4	8,6

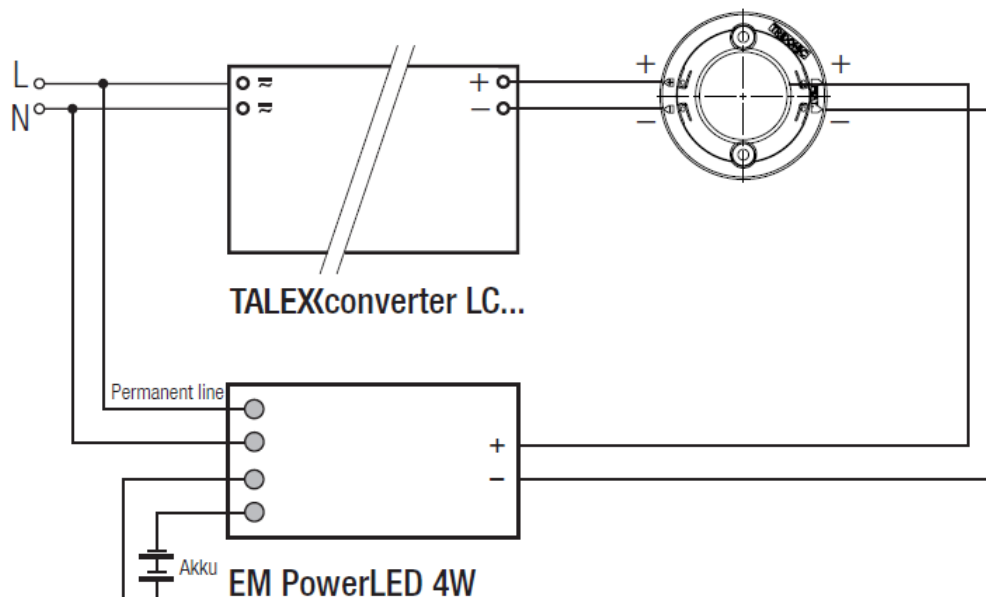
Selecting compatible mains control gear for TALEXmodule SLE GEN3 CLASSIC

A list of compatible mains control gear can be found in the LED lamp matrix:

<http://www.tridonic.com/com/en/lamp-matrix.asp>

Wiring example

STARK SLE GEN3 CLASSIC + mains control gear + EM powerLED



Note: For manually tested emergency lighting

Due to the fact that independent circuits are used for normal and emergency lighting it is important that the normal supply of the mains control gear is switched off together with the permanent emergency supply prior to checking the operation of the emergency LEDs.

If this is not done then it may not be possible to see that the emergency LEDs are operating.

Please refer to the EM powerLED 2W resp. EM powerLED 4W datasheet for further information.

Note: For emergency lighting with EM powerLED 2W:

With the mains operation function of EM powerLED 2W a simple Corridor Function can be realised. Please refer to the EM powerLED 2W datasheet for further information.

Wiring

Cable: AWG24; length 300 mm

Pin	1	2	3	4	5	6
Function	+ (LED)	- (LED)	+ (EM)	- (EM)	NTC (LED)	NTC (LED)
colour	red	black	red	black	grey	grey

Technical Sales
November 2014