



## ErP 2022 NEW Products

### SHENZHEN TYRIA LIGHTING TECHNOLOGY CO., LTD

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Specialized  
in led strip  
customization service



### National High Tech Enterprise

HTP highlights excellent talent of more than 10,000 people, including foreign engineers, structural engineers, electronic engineers and technicians in the development and production of high-quality 5G chip. More than 2000 customer products have been completed across the various fields of different industries. Typical structural new products include: patents and accessories, 5G chip, structural components and 5G chip module.



# Energy efficiency classes and calculation method

The energy efficiency class (light colour) and the distribution of classes (dark to light) is the same for the class A+ and class A. The class A+ is only used for the class A+ and class A. The class A is only used for the class A and class A+.

TABLE 1  
Energy efficiency classes (light colour)

Energy efficiency class	Energy efficiency class (dark)
A+	100% > 90%
A	90% > 80% > 70%
B	80% > 70% > 60%
C	60% > 50% > 40%
D	40% > 30% > 20%
E	20% > 10% > 0%
F	0% > 0%
G	0% > 0%

TABLE 2  
Energy efficiency classes (dark colour)

Energy efficiency class	Energy efficiency class (light)
Class A+ (dark)	100%
Class A (dark)	90%
Class B (dark)	80%
Class C (dark)	70%
Class D (dark)	60%
Class E (dark)	50%
Class F (dark)	40%
Class G (dark)	30%

# Official Journal of the European Union

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TABLE 3  
Energy efficiency classes

TABLE 3  
Energy efficiency classes (dark colour)

TABLE 4  
Energy efficiency classes

TABLE 5  
Energy efficiency classes (dark colour)

Energy efficiency class	Energy efficiency class (dark)	
	A+	A
Class A+	100%	90%
Class A	90%	80%
Class B	80%	70%
Class C	70%	60%
Class D	60%	50%
Class E	50%	40%
Class F	40%	30%
Class G	30%	20%
Class H	20%	10%
Class I	10%	0%
Class J	0%	0%

Official Journal of the European Union

Legal source description	19	24
Total expenditure	(442)	(45)
-2004-2006 expenditure	66	107
-2007-2013 expenditure	496	152
-2014-2020 expenditure	154	142
-Expenditure authorised	46	131
-Expenditure committed	49	111
-Expenditure in liquidation	51	100
-Expenditure accounted for	64	102
-Expenditure under contract	84	105
-2004-2006 expenditure	66	107
-2007-2013 expenditure	88	148
-2014-2020 expenditure	142	132

Table 13: Commitment expenditure according to legal source and expenditure

Legal source description	2007-2013
-2004-2006 expenditure	66
-2007-2013 expenditure	154
-2014-2020 expenditure	142
-Expenditure authorised	46
-Expenditure committed	49
-Expenditure in liquidation	51
-Expenditure accounted for	64
-Expenditure under contract	84
-2004-2006 expenditure	66
-2007-2013 expenditure	88
-2014-2020 expenditure	142
-2004-2006 expenditure	66
-2007-2013 expenditure	88
-2014-2020 expenditure	142

Table 14: Budgetary impact of the financial instrument under the ERDF regulation

Table 14: Budgetary impact of the financial instrument under the ERDF regulation

Legal source description	
Total liability	(180) (20) (160) (10) (170) (10) (180) (10) (190) (10) (200) (10) (210) (10) (220) (10) (230) (10) (240) (10) (250) (10) (260) (10) (270) (10) (280) (10) (290) (10) (300) (10)
Total expenditure	(180) (20) (160) (10) (170) (10) (180) (10) (190) (10) (200) (10) (210) (10) (220) (10) (230) (10) (240) (10) (250) (10) (260) (10) (270) (10) (280) (10) (290) (10) (300) (10)
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Table 15: Total ERDF expenditure for budgetary impact liability

Table 16: Budgetary impact of the financial instrument under the ERDF regulation

Table 17: Budgetary impact of the financial instrument under the ERDF regulation

Table 18: Budgetary impact of the financial instrument under the ERDF regulation

Table 19: Budgetary impact of the financial instrument under the ERDF regulation

Table 20: Budgetary impact of the financial instrument under the ERDF regulation

Table 21: Budgetary impact of the financial instrument under the ERDF regulation

Table 22: Budgetary impact of the financial instrument under the ERDF regulation

Table 23: Budgetary impact of the financial instrument under the ERDF regulation

Table 24: Budgetary impact of the financial instrument under the ERDF regulation

Table 25: Budgetary impact of the financial instrument under the ERDF regulation

Table 26: Budgetary impact of the financial instrument under the ERDF regulation

Table 27: Budgetary impact of the financial instrument under the ERDF regulation

Table 28: Budgetary impact of the financial instrument under the ERDF regulation

Table 29: Budgetary impact of the financial instrument under the ERDF regulation

Table 30: Budgetary impact of the financial instrument under the ERDF regulation

#### 17000000 Series

ASST Code	Desc (ASST)	Category (C)	ASST Type	SA	ASST	Diff. (ASST - ASST <sub>0</sub> )	Indicator	Step
							100	
							100	
	100	10	1000	10	100	0	1	10
	100	10	1000	10	100	0	1	10
	100	10	1000	10	100	0	1	10
	100	10	1000	10	100	0	1	10
	100	10	1000	10	100	0	1	10
	100	10	1000	10	100	0	1	10

#### 18000000 Series

ASST Code	Desc (ASST)	Category (C)	ASST Type	SA	ASST	Diff. (ASST - ASST <sub>0</sub> )	Indicator	Step
							100	
							100	
	10	10	1000	10	100	0	1	10
	10	10	1000	10	100	0	1	10
	100	10	1000	10	100	0	1	10
	100	10	1000	10	100	0	1	10
	100	10	1000	10	100	0	1	10
	100	10	1000	10	100	0	1	10
	100	10	1000	10	100	0	1	10
	100	10	1000	10	100	0	1	10
	100	10	1000	10	100	0	1	10

#### 17000000 Series

ASST Code	Desc (ASST)	Category (C)	ASST Type	SA	ASST	Diff. (ASST - ASST <sub>0</sub> )	Indicator	Step
							100	
							100	
							100	
	100	10	1000	10	100	0.01	1	10
	100	10	1000	10	100	0	1	10
	100	10	1000	10	100	0.01	1	10
	100	10	1000	10	100	0.01	1	10
	100	10	1000	10	100	0	1	10
	100	10	1000	10	100	0	1	10

#### 18000000 Series

ASST Code	Desc (ASST)	Category (C)	ASST Type	SA	ASST	Diff. (ASST - ASST <sub>0</sub> )	Indicator	Step
							100	
							100	
							100	
	100	10	1000	10	100	0.01	1	10
	100	10	1000	10	100	0.01	1	10
	100	10	1000	10	100	0.01	1	10
	100	10	1000	10	100	0.01	1	10

### 1500000000000000

ISSN/ISSN-E	Year (ISSN)	Category	ISSN Type	ISS	ISSN	Country	Acquisition	Page
							ISS	
							ISS	
							ISS	
							ISS	
							ISS	
							ISS	
							ISS	
	00	00	ISSN	00	ISSN	00	00	00
	00	00	ISSN	00	ISSN	00	00	00

### 1500000000000000

ISSN/ISSN-E	Year (ISSN)	Category	ISSN Type	ISS	ISSN	Country	Acquisition	Page
							ISS	
							ISS	
							ISS	
							ISS	
							ISS	
	00	00	ISSN	00	ISSN	00	00	00
	00	00	ISSN	00	ISSN	00	00	00
	00	00	ISSN	00	ISSN	00	00	00

### 1500000000000000

ISSN/ISSN-E	Year (ISSN)	Category	ISSN Type	ISS	ISSN	Country	Acquisition	Page
							ISS	
							ISS	
							ISS	
							ISS	
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	00	00	ISSN	00	ISSN	00	00	00
	00	00	ISSN	00	ISSN	00	00	00

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ISSN/ISSN-E	Year (ISSN)	Category	ISSN Type	ISS	ISSN	Country	Acquisition	Page
							ISS	
							ISS	
							ISS	
							ISS	
							ISS	
	00	00	ISSN	00	ISSN	00	00	00
	00	00	ISSN	00	ISSN	00	00	00
	00	00	ISSN	00	ISSN	00	00	00

#### 150/100/100 Series

LED Type	Power (W)	Color Temp. (K)	LED Type	LMW	LMW2	LMW3	Beam Angle	Temp.
							4	30
							4	30
							4	30
							4	30
							4	30
	100	30	3000	30	100	100	4	30
	100	30	3000	30	100	100	4	30

#### 150/100/100 White Series

LED Type	Power (W)	Color Temp. (K)	LED Type	LMW	LMW2	LMW3	Beam Angle	Temp.
							4	30
							4	30
							4	30
							4	30
							4	30
	100	30	3000	30	100	100	4	30
	100	30	3000	30	100	100	4	30
	100	30	3000	30	100	100	4	30

#### 150/100/100 RGB Series

LED Type	Power (W)	Color Temp. (K)	LED Type	LMW	LMW2	LMW3	Beam Angle	Temp.
							4	30
							4	30
							4	30
							4	30
							4	30
	100	30	3000	30	100	100	4	30
	100	30	3000	30	100	100	4	30
	100	30	3000	30	100	100	4	30

\*LMW3: 1000lm, 1000lm, 1000lm, 1000lm, 1000lm

\*LMW3: 1000lm, 1000lm, 1000lm, 1000lm, 1000lm, 1000lm, 1000lm, 1000lm, 1000lm, 1000lm





# New ERP Products

2022 CATALOGUE

Specialized  
in led strip  
customization service



Ø100/100	10
Ø100/125	10
Ø100/150	10
Ø100/175	10
Ø100/200	10
Ø100/225	10
Ø100/250	10
Ø100/275	10
Ø100/300	10



View 1 (External view)

IP 00/100 Series

Ø100/100

Ø100/125

Ø100/150

Ø100/100	10
Ø100/125	10
Ø100/150	10
Ø100/175	10
Ø100/200	10
Ø100/225	10
Ø100/250	10
Ø100/275	10
Ø100/300	10



View 2 (External view)

Ø100/100

Ø100/125

Ø100/150

IP 00/100 Series

#### Product Features

- Superior efficiency
- 100% water collecting, double water volume
- 100% gas and 100% pipe saving



Ø100/100 (100%)

Ø100	Standard water flow (m³/h)	Flow (m³/h)	Flow (m³/h)	Ø100/100	Ø100/125	Using efficiency rate	
						100%	100%
Ø100	0.000-0.0			100%	100%	100%	100%
Ø100	0.000-0.0			100%	100%	100%	100%
Ø100	0.000-0.0	100%	100%	100%	100%	100%	100%
Ø100	0.000-0.0			100%	100%	100%	100%

#### Product Features

- Superior efficiency
- 100% water collecting, double water volume
- 100% gas and 100% pipe saving



Ø100/100 (100%)

Ø100	Standard water flow (m³/h)	Flow (m³/h)	Flow (m³/h)	Ø100/100	Ø100/125	Using efficiency rate	
						100%	100%
Ø100	0.000-0.0			100%	100%	100%	100%
Ø100	0.000-0.0			100%	100%	100%	100%
Ø100	0.000-0.0	100%	100%	100%	100%	100%	100%
Ø100	0.000-0.0			100%	100%	100%	100%

Ø100/100	10
Ø100/125	10
Ø100/150	10
Ø100/175	10
Ø100/200	10
Ø100	10
Ø100	10



IP 00/100 Series      Ø100/100      Ø100/100      10°

#### Product Features

- High efficiency
- Highly resistant to scaling, corrosion and other issues
- Ø100 for pipe or Ø100/100 pipe assembly



Ø100/100 10°

Ø100	Flowing medium (quality)	Flow (m³/h)	Flow (m³/min)	Ø100/100	Ø100/100	Flow efficiency (%)	
						Ø100	Ø100
Ø100	Ø100/100			Ø100	Ø100	95	95
Ø100	Ø100/125			Ø100	Ø100	95	95
Ø100	Ø100/150	10	10	Ø100	Ø100	95	95
Ø100	Ø100/175			Ø100	Ø100	95	95
Ø100	Ø100/200			Ø100	Ø100	95	95

Ø100/100	10
Ø100/125	10
Ø100/150	10
Ø100/175	10
Ø100/200	10
Ø100	10
Ø100	10



Ø100/100      Ø100/100      10°      IP 00/100 Series

#### Product Features

- High efficiency
- Highly resistant to scaling, corrosion and other issues
- Ø100 for pipe or Ø100/100 pipe assembly



Ø100/100 10°

Ø100	Flowing medium (quality)	Flow (m³/h)	Flow (m³/min)	Ø100/100	Ø100/100	Flow efficiency (%)	
						Ø100	Ø100
Ø100	Ø100/100			Ø100	Ø100	95	95
Ø100	Ø100/125			Ø100	Ø100	95	95
Ø100	Ø100/150	10	10	Ø100	Ø100	95	95
Ø100	Ø100/175			Ø100	Ø100	95	95
Ø100	Ø100/200			Ø100	Ø100	95	95

Weight (kg)	10
Weight (lb)	22
Length (ft)	10
Length (m)	3.05
Width (in)	4.5
Width (mm)	114.3
Height (in)	0.5
Height (mm)	12.7



10' x 4.5" x 0.5" (3050mm x 114.3mm x 12.7mm)

IP-001/PH3 Series

CONCRETE

STEEL

4.5"

#### Product Features

##### Assembly Options

• Many ways to install, including double and triple end-to-end

• 100% recycled products (100% recycled paper backing)



Assembly Options

Part	Quantity (end-to-end & length)	Fast (mm)	Fast (inches)	PH3 (mm)	PH3 (inches)	Single fastener hole	
						PH3	PH3
PH3	CONCRETE			10	10	0.5	0.5
PH3	STEEL			10	10	0.5	0.5
PH3	CONCRETE	10	10	10	10	0.5	0.5
PH3	STEEL	10	10	10	10	0.5	0.5

Weight (kg)	10
Weight (lb)	22
Length (ft)	10
Length (m)	3.05
Width (in)	4.5
Width (mm)	114.3
Height (in)	0.5
Height (mm)	12.7



10' x 4.5" x 0.5" (3050mm x 114.3mm x 12.7mm)

CONCRETE

STEEL

4.5"

IP-001/PH3 Series

#### Product Features

##### Assembly Options

• Many ways to install, including double and triple end-to-end

• 100% recycled products (100% recycled paper backing)



Assembly Options

Part	Quantity (end-to-end & length)	Fast (mm)	Fast (inches)	PH3 (mm)	PH3 (inches)	Single fastener hole	
						PH3	PH3
PH3	CONCRETE			10	10	0.5	0.5
PH3	STEEL			10	10	0.5	0.5
PH3	CONCRETE	10	10	10	10	0.5	0.5
PH3	STEEL	10	10	10	10	0.5	0.5

Werkstoff	Al
Belagmaterial	Al
Belagart	Al
Werkstoff	Al
Werkstoff	Al
Al	Al
Werkstoff	Al



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IP 001/PH3 Series

000000

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PH

#### Product Features

##### Superlightness

- 100% pure aluminum extrusion
- 100% pure aluminum plate



000000 0000

PH	Quantity (mm/min x length)	Core (mm)	Core (mm)	PH (mm)	Aluminum (mm)	Single extrusion line	
						PH	Al
0000	0.0000			00	00	PH	Al
0000	0.0000			00	00	PH	Al
0000	0.0000			00	00	PH	Al
0000	0.0000			00	00	PH	Al
0000	0.0000			00	00	PH	Al



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PH

Werkstoff	Al
Belagmaterial	Al
Belagart	Al
Werkstoff	Al
Werkstoff	Al
Al	Al
Werkstoff	Al

IP 001/PH3 Series

#### Product Features

##### Superlightness

- 100% pure aluminum extrusion
- 100% pure aluminum plate



000000 0000

PH	Quantity (mm/min x length)	Core (mm)	Core (mm)	PH (mm)	Aluminum (mm)	Single extrusion line	
						PH	Al
0000	0.0000			00	00	PH	Al
0000	0.0000			00	00	PH	Al
0000	0.0000			00	00	PH	Al
0000	0.0000			00	00	PH	Al
0000	0.0000			00	00	PH	Al

Max. diameter	20
Max. length	20
Weight	20
Max. temp.	200
Max. speed	200
Max.	20
Max.	20



ErP 200/200 (flexible)

IP 68/69 Series

CONCRETE

STEEL/STEEL

FLUID

#### Product Features

- High efficiency
- High water-tightness, excellent water-tightness
- Excellent operation (100000 cycles working)



Single-end Hose

Size	Standard length (m)	Flow (L/min)	Flow (GPM)	Pressure (MPa)	Pressure (PSI)	Weight (kg/m)	
						Inner	Outer
20mm	2000.00	20	20	20	20	0.20	0.20
20mm	1000.00			20	20	0.20	0.20
20mm	500.00			20	20	0.20	0.20
20mm	200.00			20	20	0.20	0.20

Max. diameter	20
Max. length	20
Weight	20
Max. temp.	200
Max. speed	200
Max.	20
Max.	20



ErP 200/200 (flexible)

CONCRETE

STEEL/STEEL

FLUID

IP 68/69 Series

#### Product Features

- High efficiency
- High water-tightness, excellent water-tightness
- Excellent operation (100000 cycles working)



Double-end Hose

Size	Standard length (m)	Flow (L/min)	Flow (GPM)	Pressure (MPa)	Pressure (PSI)	Weight (kg/m)	
						Inner	Outer
20mm	2000.00	20	20	20	20	0.20	0.20
20mm	1000.00			20	20	0.20	0.20
20mm	500.00			20	20	0.20	0.20
20mm	200.00			20	20	0.20	0.20

LED-Modul (lm)	30
LED-Modul (lm)	30
Abgleich	30
Lebensdauer (h)	50.000
Abgleich	30
LM	30
LM	30



ErP-Produktionsverfahren

IP-65/IP67 Series

LED-STRIP

LED-STRIP

FLIM

#### Produktcharakteristika

- 30° Abgleich
- 30° Abgleich / 30° Abgleich / 30° Abgleich / 30° Abgleich
- 50.000 Stunden Lebensdauer



LED-STRIP (30°)

LED	Leistung (Watt/meter x Länge)	Beam (30°)	Beam (30°)	IP-65/IP67	Abgleich (30°)	Leistung (Watt/meter)	
						30°	30°
3000	3000/30	30	30	IP-65/IP67	30°	30	30
3000	3000/30					30	30
3000	3000/30	30	30	IP-65/IP67	30°	30	30
3000	3000/30					30	30
3000	3000/30	30	30	IP-65/IP67	30°	30	30
3000	3000/30					30	30

LED-Modul (lm)	30
LED-Modul (lm)	30
Abgleich	30
Lebensdauer (h)	50.000
Abgleich	30
LM	30
LM	30



ErP-Produktionsverfahren

LED-STRIP

LED-STRIP

FLIM

IP-65/IP67 Series

#### Produktcharakteristika

- 30° Abgleich
- 30° Abgleich / 30° Abgleich / 30° Abgleich / 30° Abgleich
- 50.000 Stunden Lebensdauer



LED-STRIP (30°)

LED	Leistung (Watt/meter x Länge)	Beam (30°)	Beam (30°)	IP-65/IP67	Abgleich (30°)	Leistung (Watt/meter)	
						30°	30°
3000	3000/30	30	30	IP-65/IP67	30°	30	30
3000	3000/30					30	30
3000	3000/30	30	30	IP-65/IP67	30°	30	30
3000	3000/30					30	30
3000	3000/30	30	30	IP-65/IP67	30°	30	30
3000	3000/30					30	30

Ø100/100	10
Ø100/125	10
Ø100/150	10
Ø100/175	10
Ø100/200	10
Ø100	10
Ø100	10



3-Dimensionale Ansicht

IP 68/69 Series

Ø100/100

Ø100/125

Ø100/150

Ø100/175

Ø100/200

**Product Features**

- Long lifetime
- High water-tightness according to standards
- Multiple sensors (1000) per sensor



Ø100/100

Ø100	Quantity (sensors per pipe)	Pipe (mm)	Pipe (mm)	Ø100/100	Ø100/125	Single-sensor type	
						Ø100	Ø125
Ø100	1000/100			10	10	100	100
Ø100	1000/125			10	10	100	100
Ø100	1000/150	10	10	100	100	100	100
Ø100	1000/175			100	100	100	100
Ø100	1000/200			100	100	100	100

Ø100/100	10
Ø100/125	10
Ø100/150	10
Ø100/175	10
Ø100/200	10
Ø100	10
Ø100	10



3-Dimensionale Ansicht

Ø100/100

Ø100/125

Ø100/150

IP 68/69 Series

**Product Features**

- Long lifetime
- High water-tightness according to standards
- Multiple sensors (1000) per sensor



Ø100/100

Ø100	Quantity (sensors per pipe)	Pipe (mm)	Pipe (mm)	Ø100/100	Ø100/125	Single-sensor type	
						Ø100	Ø125
Ø100	1000/100			100	10	100	100
Ø100	1000/125			100	10	100	100
Ø100	1000/150	10	10	100	100	100	100
Ø100	1000/175			100	100	100	100
Ø100	1000/200			100	100	100	100



LED-Modul	10
LED-Modulbreite	28,28
LED-Modulhöhe	10
LED-Leuchte	1000
LED-Leuchtebreite	1000
LED-Leuchtehöhe	100
LED	10
LED-Modul	10



10 x 28,28 x 10 mm (L x B x H)

**IP 68/69 Series**

CONCRETE

INDOOR/OUTDOOR

10-100'

**Product Features**

- High efficiency
- High water resistance, suitable for outdoor use
- Lifetime up to 100,000 hours working



LED strip light 1000'

LED	Quantity (width x height x length)	Case (mm)	Case (inches)	IP(Rating)	Efficiency (lm/w)	Energy efficiency class		
						EN62321	EN62321	
1000'	1000 x 28,28 x 10	10	10	IP68	100	100	AA	AA
1000'	1000 x 28,28				100	100	AA	AA
1000'	1000 x 28,28				100	100	AA	AA
1000'	1000 x 28,28				100	100	AA	AA

LED-Modul	10
LED-Modulbreite	28,28
LED-Modulhöhe	10
LED-Leuchte	1000
LED-Leuchtebreite	1000
LED-Leuchtehöhe	100
LED	10
LED-Modul	10



10 x 28,28 x 10 mm (L x B x H)

CONCRETE

INDOOR/OUTDOOR

10-100'

**IP 68/69 Series**

**Product Features**

- High efficiency
- High water resistance, suitable for outdoor use
- Lifetime up to 100,000 hours working



LED strip light 1000'

LED	Quantity (width x height x length)	Case (mm)	Case (inches)	IP(Rating)	Efficiency (lm/w)	Energy efficiency class		
						EN62321	EN62321	
1000'	1000 x 28,28 x 10	10	10	IP68	100	100	AA	AA
1000'	1000 x 28,28				100	100	AA	AA
1000'	1000 x 28,28				100	100	AA	AA
1000'	1000 x 28,28				100	100	AA	AA

Efficiency class	A
Energy efficiency class	A++
Capacity	32
Width (mm)	600
Depth (mm)	600
Weight	14
Warranty	3



**IP65/PH0 Series**      **CONCRETE**      **PAVING**      **SLAB**

#### Product features

- High efficiency
- High water resistance (IP65)
- 30000 hours lifetime (typical)



Integrated Series



LED	Quantity (width x length)	Power (W/m)	Power (W/ft)	IP Rating	Efficiency (lm/W)	Beam adjustment	
						0°	15°
2835	3000 x 6	12	3.5	IP65	120	Yes	Yes
2835	3000 x 12	24	7.0	IP65	120	Yes	Yes
2835	3000 x 18	36	10.5	IP65	120	Yes	Yes
2835	3000 x 24	48	14.0	IP65	120	Yes	Yes

Efficiency class	A
Energy efficiency class	A++
Capacity	32
Width (mm)	600
Depth (mm)	600
Weight	14
Warranty	3



**CONCRETE**      **PAVING**      **SLAB**      **IP65/PH0 Series**

#### Product features

- High efficiency
- High water resistance (IP65)
- 30000 hours lifetime (typical)



Integrated Series



LED	Quantity (width x length)	Power (W/m)	Power (W/ft)	IP Rating	Efficiency (lm/W)	Beam adjustment	
						0°	15°
2835	3000 x 6	12	3.5	IP65	120	Yes	Yes
2835	3000 x 12	24	7.0	IP65	120	Yes	Yes
2835	3000 x 18	36	10.5	IP65	120	Yes	Yes
2835	3000 x 24	48	14.0	IP65	120	Yes	Yes

Ø100/100	10
Ø100/125	10
Ø100/150	10
Ø100/175	10
Ø100/200	10
Ø100	10
Ø100	10



Ø100/100/100/100

IP 65/68 Series

Ø100/100

Ø100/100

Ø100

#### Product Features

- High strength
- High water resistance, excellent weather resistance
- Lifetime span over 100000 years service



Ø100/100/100

Ø100	Quantity (width x height x length)	Color (mm)	Color (mm)	Ø100/100	Ø100/100	Strong ultraviolet rays	
						UV-A	UV-B
Ø100	1000x100	RAL 7035	RAL 7035	100	100	Orange	Orange
Ø100	1000x125			100	100	Orange	Orange
Ø100	1000x150			100	100	Orange	Orange
Ø100	1000x175			100	100	Orange	Orange

Ø100/100	10
Ø100/125	10
Ø100/150	10
Ø100/175	10
Ø100/200	10
Ø100	10
Ø100	10



Ø100/100/100/100

Ø100/100

Ø100/100

Ø100

IP 65/68 Series

#### Product Features

- High strength
- High water resistance, excellent weather resistance
- Lifetime span over 100000 years service



Ø100/100/100

Ø100	Quantity (width x height x length)	Color (mm)	Color (mm)	Ø100/100	Ø100/100	Strong ultraviolet rays	
						UV-A	UV-B
Ø100	1000x100	RAL 7035	RAL 7035	100	100	Orange	Orange
Ø100	1000x125			100	100	Orange	Orange
Ø100	1000x150			100	100	Orange	Orange
Ø100	1000x175			100	100	Orange	Orange

LED-Modul (m)	10
LED-Modul (mm)	4000
Abstand (mm)	50
LED-Leuchte (lm)	1000
LED-Leuchte (lm)	1000
LED	100
LED	100
LED	100



1000mm (39,37in) Länge

**IP 65/IP67 Series**

CONNECT

PROLOGEN

FLUX

**Product Features**

- High efficiency
- High water resistance, suitable for outdoor use
- Lifetime up to 50,000 hours (typical)



LED strip (1000mm)

LED	Quantity (width x height)	Power (W/m)	Power (W/ft)	IP Rating	Efficiency (lm/W)	Beam adjustment	
						0°	15°
2835	2835x12	10	10	IP65	100	0°	0°
2835	2835x12	10	10			15°	15°
3030	3030x12	10	10	IP67	100	0°	0°
3030	3030x12	10	10			15°	15°

LED-Modul (m)	10
LED-Modul (mm)	4000
Abstand (mm)	50
LED-Leuchte (lm)	1000
LED-Leuchte (lm)	1000
LED	100
LED	100
LED	100



1000mm (39,37in) Länge

CONNECT

PROLOGEN

FLUX

**IP 65/IP67 Series**

**Product Features**

- High efficiency
- High water resistance, suitable for outdoor use
- Lifetime up to 50,000 hours (typical)



LED strip (1000mm)

LED	Quantity (width x height)	Power (W/m)	Power (W/ft)	IP Rating	Efficiency (lm/W)	Beam adjustment	
						0°	15°
2835	2835x12	10	10	IP65	100	0°	0°
2835	2835x12	10	10			15°	15°
3030	3030x12	10	10	IP67	100	0°	0°
3030	3030x12	10	10			15°	15°

Ø100/100	10
Ø125/125	10/15
Ø150/150	15
Ø175/175	15/20
Ø200/200	20
Ø225/225	20
Ø250/250	25



ErP 200/200 Products

**IP 00/00 Series**

Ø100/100

Ø150/150

Ø200/200

**Product Features**

- High efficiency
- High water resistance, excellent corrosion resistance
- 100% recyclable (RHD) type wiring



Ø100/100 Series



Ø100	Quantity (width x length)	Load (kg)	Span (mm)	Ø100/100	Ø150/150	Strong aluminium alloy	
						Ø100	Ø150
Ø100	1000 x 1000	100	100	Ø100	Ø150	Strong	Strong
Ø100	1000 x 1500			Ø100	Ø150	Strong	Strong
Ø100	1500 x 1000	100	100	Ø100	Ø150	Strong	Strong
Ø100	1500 x 1500			Ø100	Ø150	Strong	Strong

Ø100/100	10
Ø125/125	10/15
Ø150/150	15
Ø175/175	15/20
Ø200/200	20
Ø225/225	20
Ø250/250	25



ErP 200/200 Products

Ø100/100

Ø150/150

Ø200/200

**IP 00/00 Series**

**Product Features**

- High efficiency
- High water resistance, excellent corrosion resistance
- 100% recyclable (RHD) type wiring



Ø100/100 Series



Ø100	Quantity (width x length)	Load (kg)	Span (mm)	Ø100/100	Ø150/150	Strong aluminium alloy	
						Ø100	Ø150
Ø100	1000 x 1000	100	100	Ø100	Ø150	Strong	Strong
Ø100	1000 x 1500			Ø100	Ø150	Strong	Strong
Ø100	1500 x 1000	100	100	Ø100	Ø150	Strong	Strong
Ø100	1500 x 1500			Ø100	Ø150	Strong	Strong

Efficiency class	A
Energy efficiency class	A
Capacity	32
Max. flow	100
Max. pressure	100
Max. length	100
Weight	4



**IP 00/PH0 Series**      **C05**      **ABS/EPDM**      **100°**

**Product features**

- Up to 100 bar working pressure
- No special working conditions (UV)
- 100% green and 100% pipe energy



ErP	Capacity (m³/min @ 1 bar)	Flow (l/min)	Flow (m³/h)	Pressure (MPa)	Pressure (bar)	Energy efficiency class	
						EN 12543	EN 12542
IP00	0,000-0,01			0,1	10	✓	✓
IP00	0,000-0,02			0,1	10	✓	✓
IP00	0,000-0,03	10	0,3	0,1	10	✓	✓
IP00	0,000-0,04			0,1	10	✓	✓

Efficiency class	A
Energy efficiency class	A
Capacity	32
Max. flow	100
Max. pressure	100
Max. length	100
Weight	4



**C05**      **ABS/EPDM**      **100°**      **IP 00/PH0 Series**

**Product features**

- Up to 100 bar working pressure
- No special working conditions (UV)
- 100% green and 100% pipe energy



ErP	Capacity (m³/min @ 1 bar)	Flow (l/min)	Flow (m³/h)	Pressure (MPa)	Pressure (bar)	Energy efficiency class	
						EN 12543	EN 12542
IP00	0,000-0,01			0,1	10	✓	✓
IP00	0,000-0,02			0,1	10	✓	✓
IP00	0,000-0,03	10	0,3	0,1	10	✓	✓
IP00	0,000-0,04			0,1	10	✓	✓

LED-Modul	10
LED-Strahler	10
LED-Strip	10
LED-Lin	100
LED-Panel	100
LED	100
WEEE	10



ErP-Produktkategorie: LED

IP-00/000 Series

20-20

100-1000

1-100

#### Product Features

- Super bright
- High power emitting module with low heat
- 50000 hours (MTBF) typical rating



Subtype: 1000

ErP	RoHS-compliant (only)	Power (W)	Power (Watt)	Voltage (V)	Voltage (V)	Energy efficiency class	
						ErP	ErP
1000	10000-01	10	10	10	10	ErP	ErP
1000	10000-02	10	10	10	10	ErP	ErP



ErP-Produktkategorie: LED

20-20

100-1000

1-100

LED-Modul	10
LED-Strahler	10
LED-Strip	10
LED-Lin	100
LED-Panel	100
LED	100
WEEE	10

IP-00/000 Series

#### Product Features

- Super bright
- High power emitting module with low heat
- 50000 hours (MTBF) typical rating



Subtype: 1000

ErP	RoHS-compliant (only)	Power (W)	Power (Watt)	Voltage (V)	Voltage (V)	Energy efficiency class	
						ErP	ErP
1000	10000-01	10	10	10	10	ErP	ErP
1000	10000-02	10	10	10	10	ErP	ErP

LED Modules	10
Supply Voltage	24V
Length	20
Width	1000
Height	20
Weight	0.2
IP	65
Warranty	5



Top view (mm) (x10)

**IP65/PHO Series**

24V

20x10x20mm

19.2m

**Product Features**

- Super brightness
- High level of reliability, excellent performance
- Ultra-slim and flexible design



Multiple views

LED	Quantity (with wire & length)	Power (W)	Power (W/m)	Voltage (V)	Height (mm)	Energy efficiency class		
						EU	USA	
24V	10x20x20	10	0.5	24	20	20	Class A	Class A
24V	10x20x20	10	0.5	24	20	20	Class A	Class A



Top view (mm) (x10)

LED Modules	10
Supply Voltage	24V
Length	20
Width	1000
Height	20
Weight	0.2
IP	65
Warranty	5

24V

20x10x20mm

19.2m

**IP65/PHO Series**

**Product Features**

- Super brightness
- High level of reliability, excellent performance
- Ultra-slim and flexible design



Multiple views

LED	Quantity (with wire & length)	Power (W)	Power (W/m)	Voltage (V)	Height (mm)	Energy efficiency class		
						EU	USA	
24V	10x20x20	10	0.5	24	20	20	Class A	Class A
24V	10x20x20	10	0.5	24	20	20	Class A	Class A
24V	10x20x20	10	0.5	24	20	20	Class A	Class A
24V	10x20x20	10	0.5	24	20	20	Class A	Class A



LED-Matrix	30
Leuchtdichte	100
Abgleich	30
Leuchtwinkel	60°
Leuchtdauer	50.000
IP	65
WEEE	4



100cm (39,37 Zoll)

**IP68/PHO Series**

100cm

100cm

100cm

**Product Features**

- Super brightness
- High power in industry standard construction
- Ultra precision SMD chip wiring



100cm (39,37 Zoll)

LED	Quantity (width x length)	Power (W)	Power (VA)	SMD (mm)	Efficiency (lm/W)	Strip configuration	
						100cm	50cm
3030	30x1000	30	30	3030	100	50	100
3030	30x500	30	30	3030	100	50	100
3030	30x1000	30	30	3030	100	50	100
3030	30x500	30	30	3030	100	50	100

LED-Matrix	30
Leuchtdichte	100
Abgleich	30
Leuchtwinkel	60°
Leuchtdauer	50.000
IP	65
WEEE	4



100cm (39,37 Zoll)

100cm

100cm

100cm

**IP68/PHO Series**

**Product Features**

- Super brightness
- High power in industry standard construction
- Ultra precision SMD chip wiring



100cm (39,37 Zoll)

LED	Quantity (width x length)	Power (W)	Power (VA)	SMD (mm)	Efficiency (lm/W)	Strip configuration	
						100cm	50cm
3030	30x1000	30	30	3030	100	50	100
3030	30x500	30	30	3030	100	50	100
3030	30x1000	30	30	3030	100	50	100
3030	30x500	30	30	3030	100	50	100

LED-Matrix	30
Leuchtdichte	30
Abgleich	30
Leuchtwinkel	300°
Leuchtwärme	30
IP	30
WEEE	30



100cm (39,37 Zoll) x 10mm

**IP68/PH0 Series**

100cm

3000K/5000K

PH0

**Product Features**

- Super brightness
- 100% water-tight, suitable for outdoor use
- 10000 hours lifetime (typical)



100cm (39,37 Zoll)

LED	Quantity (width x length)	Color (CCT)	Beam (Beam dia.)	IP (PH0)	Energy efficiency class		
					EU	USA	China
3000K	100cm x 10mm	30	300°	30	EU	USA	China
5000K	100cm x 10mm				EU	USA	China
3000K	100cm x 10mm				EU	USA	China
5000K	100cm x 10mm				EU	USA	China

LED-Matrix	30
Leuchtdichte	30
Abgleich	30
Leuchtwinkel	300°
Leuchtwärme	30
IP	30
WEEE	30



100cm (39,37 Zoll) x 10mm

100cm

3000K/5000K

PH0

**IP68/PH0 Series**

**Product Features**

- Super brightness
- 100% water-tight, suitable for outdoor use
- 10000 hours lifetime (typical)



100cm (39,37 Zoll)

LED	Quantity (width x length)	Color (CCT)	Beam (Beam dia.)	IP (PH0)	Energy efficiency class		
					EU	USA	China
3000K	100cm x 10mm	30	300°	30	EU	USA	China
5000K	100cm x 10mm				EU	USA	China
3000K	100cm x 10mm				EU	USA	China
5000K	100cm x 10mm				EU	USA	China

LED-Modul	50
LED-Strahler	50
LED-Strip	50
LED-Lin.	500
LED-Panel	50
LED	50
Wahl	50



10000 Stunden Lebensdauer

#### IP68/P67 Series

5000000

10000000

100000

#### Product Features

- Super brightness
- High-power LED chips, excellent performance
- Lifetime up to 100,000 hours working



IP68/P67 Series

LED	Quantity (modules & length)	Power (W)	Power (VA)	IP68/P67	Efficiency (lm/W)	Beam adjustment	
						20°	30°
2000	1000000			50	50	Yes	Yes
2000	1000000			75	75	Yes	Yes
2000	1000000	Yes	Yes	50	50	Yes	Yes
2000	1000000			50	50	Yes	Yes

LED-Modul	50
LED-Strahler	500
LED-Strip	50
LED-Lin.	500
LED-Panel	50
LED	50
Wahl	50



10000 Stunden Lebensdauer

5000000

10000000

100000

#### IP68/P67 Series

#### Product Features

- Super brightness
- High-power LED chips, excellent performance
- Lifetime up to 100,000 hours working



IP68/P67 Series

LED	Quantity (modules & length)	Power (W)	Power (VA)	IP68/P67	Efficiency (lm/W)	Beam adjustment	
						20°	30°
2000	1000000			50	50	Yes	Yes
2000	1000000			75	75	Yes	Yes
2000	1000000	Yes	Yes	50	50	Yes	Yes
2000	1000000			50	50	Yes	Yes

LED-Technologie	LED
Leuchtdichte	100
Abstrahlwinkel	60°
Leuchtwinkel	120°
Leuchtwärme	10W
IP	65
WEEE	4



**IP65/68 Series**      2835      100LED/50cm      14,4W

**Product Features**

- Super brightness
- High quality in industry standard construction
- Lifetime up to 50,000 hours working



Abstrahlwinkel: 60°

LED	Standard width (mm) (Length)	Power (W/m)	Power (W/50cm)	Length (m/50cm)	Voltage (V/50cm)	Energy efficiency class	
						EU	US
2835	1000x10	10	10	50	5V	A	A
2835	1000x10	10	10	50	5V	A	A



LED-Technologie	LED
Leuchtdichte	100
Abstrahlwinkel	60°
Leuchtwinkel	120°
Leuchtwärme	10W
IP	65
WEEE	4

**IP65/68 Series**      2835      100LED/50cm      14,4W

**Product Features**

- Super brightness
- High quality in industry standard construction
- Lifetime up to 50,000 hours working



Abstrahlwinkel: 60°

LED	Standard width (mm) (Length)	Power (W/m)	Power (W/50cm)	Length (m/50cm)	Voltage (V/50cm)	Energy efficiency class	
						EU	US
2835	1000x10	10	10	50	5V	A	A
2835	1000x10	10	10	50	5V	A	A

Max. Voltage	24V
Max. Power	40W
Max. Length	30m
Max. Temp.	50°C
Max. Humidity	90%
Max. Altitude	3000m
Max. Shock	20g
Max. Vibration	0.1mm/s



IP 68/69 Series	24V	24V/4000h	19.2V
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**Product Features**

- Super brightness
- High level of reliability thanks to construction
- Ultra-compact 10mm per meter



LED strip connectors



LED	Max. Power (Watt/m @ 24V)	Power (W/m)	Power (W/m)	Max. Temp. (°C)		Energy efficiency class	
				24V	19.2V	2019	2021
24V	40W/m	100%	100%	50	50	A	A
19.2V	40W/m	100%	100%	50	50	A	A



Max. Voltage	24V
Max. Power	40W
Max. Length	30m
Max. Temp.	50°C
Max. Humidity	90%
Max. Altitude	3000m
Max. Shock	20g
Max. Vibration	0.1mm/s

24V Series	19.2V/4000h	19.2V	Efficient new design
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**Product Features**

- High brightness ultra-compact per meter design
- Ultra-compact design
- High level of reliability and stability
- Energy saving design



LED	Max. Power (Watt/m @ 24V)	Power (W/m)	Power (W/m)	Max. Temp. (°C)	Max. Temp. (°C)	Energy efficiency class	
						2019	2021
24V	40W/m	100%	100%	50	50	A	A
19.2V	40W/m	100%	100%	50	50	A	A
19.2V	40W/m	100%	100%	50	50	A	A
19.2V	40W/m	100%	100%	50	50	A	A

Max. Voltage	1000V
Temperature	90°C
Weight	20
Length	5000
Width	100
Color	Black
Material	PE



100% of Products

[Discover more data](#)

20.00

100% of Products

1000



100% of Products

Max. Voltage	1000V
Temperature	90°C
Weight	20
Length	5000
Width	100
Color	White
Material	PE

100% of Products

100% of Products

1000

[Discover more data](#)

#### Product Features

- High performance, ultra-thin, flexible, flat cable
- Ultra-thin, flexible, flat cable
- High performance, ultra-thin, flexible, flat cable
- High performance, ultra-thin, flexible, flat cable



Part	Quantity (with cable & plug)	Part (mm)	Part (mm)	Part (mm)	Part (mm)	Part (mm)
1000	10000.00			100	100	1000
1000	10000.00			100	100	1000
1000	10000.00	100	100	100	100	1000
1000	10000.00			100	100	1000
1000	10000.00			100	100	1000

#### Product Features

- High performance, ultra-thin, flexible, flat cable
- Ultra-thin, flexible, flat cable
- High performance, ultra-thin, flexible, flat cable
- High performance, ultra-thin, flexible, flat cable



Part	Quantity (with cable & plug)	Part (mm)	Part (mm)	Part (mm)	Part (mm)	Part (mm)
1000	10000.00			100	100	1000
1000	10000.00			100	100	1000
1000	10000.00	100	100	100	100	1000
1000	10000.00			100	100	1000
1000	10000.00			100	100	1000