

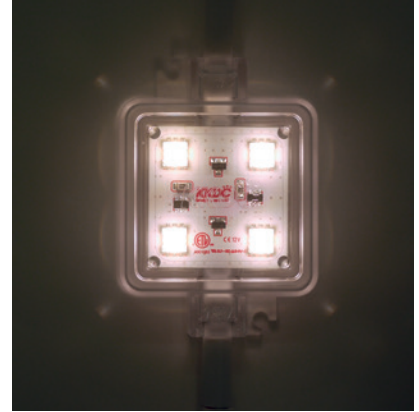
Flexible

Quadro Luna

Fixture Guide

KKDC

Indoor/Outdoor | Surface | Mid output up to 930lm/m (283lm/ft)

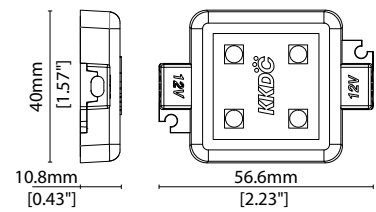


Key applications

- ✓ Architectural detail
- ✓ Backlighting/Signage
- ✓ Bathrooms
- ✓ Building façades
- ✓ Cove lighting
- ✓ Indirect lighting
- ✓ Interior/Exterior
- ✓ Mirror back lighting
- ✓ Swimming pools
- ✓ Under bench
- ✓ Under cabinet

Key features

- ✓ Custom lengths
- ✓ Diffusion: Spotting
- ✓ Extensive CCT range
- ✓ Flexible
- ✓ Form factor: Medium
- ✓ High lumen efficacy
- ✓ IP40
- ✓ IP65
- ✓ IP68
- ✓ Output mid
- ✓ Submersible



Flexible

Quadro Luna

Specification sheet

KKDC



Dimension	H10.8/W40/L56.7mm (H0.43/W1.57/L2.23in) (9/13 modules per metre)
Module pitch	111/77mm (4.37/3.03in)
Chip	s/e-line Toyoda Gosei
Beam angle	110°
Colours	s/e-line 2100K/2300K/2500K/2700K/3000K/3200K/3500K/4000K/5000K s-line Single colours: Red/Green/Blue/Orange/Amber
Bin/Step	s-line 2-step MacAdam ellipse e-line 3-step MacAdam ellipse
CRI	≥ 90
Lifetime	50,000 hours @ 25°C (50,000 hours @ 77°F)
Operating temp	IP40: T _a = -25 to 50°C (T _c max = 68°C) T _a = -13 to 122°F (T _c max = 154.4°F) IP65: T _a = -25 to 50°C (T _c max = 68°C) T _a = -13 to 122°F (T _c max = 154.4°F) IP68: T _a = -25 to 50°C (T _c max = 68°C) T _a = -13 to 122°F (T _c max = 154.4°F)
IP rating	IP40/IP65/IP68
Finish	Polycarbonate
Cover/lens	Clear
Mounting	3M adhesive tape (IP40/65), Screw fixing (IP68)
Min bend radius	90° (77mm/3.03" pitch)/180° (111mm/4.37" pitch)
Power feed	Sheathed hardwire single/double ended tail (RGB non-sheathed)
Control	0-10V/1-10V/DMX/DALI



LED Grading Key

Exclusive Grade

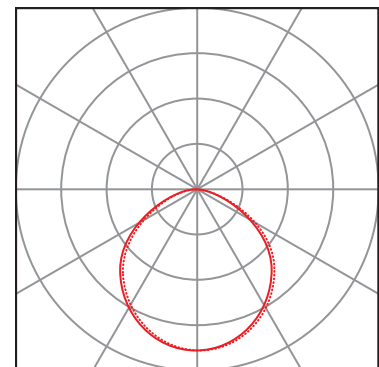
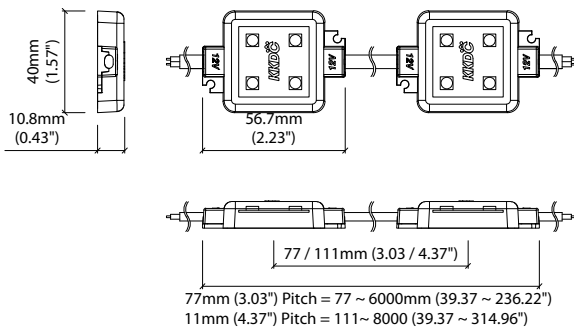
- s-line* 2-step CCT range
- e-line* 3-step CCT range

*KKDC tuned CCT range

PERFORMANCE DATA @ 3000K

Supply voltage	Modules per metre	Power consumption	Supply current
9V DC	13 modules (77mm pitch)	10.5W/m (3.2W/ft)	1.17A/m (0.36A/ft)
9V DC	9 modules (111mm pitch)	7.3W/m (2.23W/ft)	0.81A/m (0.25A/ft)
12V DC	13 modules (77mm pitch)	14.0W/m (4.27W/ft)	1.17A/m (0.36A/ft)
12V DC	9 modules (111mm pitch)	9.7W/m (2.96W/ft)	0.81A/m (0.25A/ft)

	Clear Cover (9V DC 13modules)	Clear Cover (9V DC 9modules)	Clear Cover (12V DC 13modules)	Clear Cover (12V DC 9modules)	CRI	R9	Rf	Rg
s/e-line	930lm/m (283lm/ft) 88.6lm/W	650lm/m (198lm/ft) 88.6lm/W	910lm/m (277lm/ft) 64.8lm/W	640lm/m (195lm/ft) 65.4lm/W	90	50	-	-



— C0 / C180 cd / 1000 lm C90 / C270

Data derived from independent UKAS/IESNA LM-79-08 accredited testing of production samples.



Quadro Luna

Code Table



FIXTURE

Model	Grade*	LED	Colour (CCT)		Length Availability**		IP	Cable Length		Power Feed***	Module Pitch		Input															
Quadro Luna	QL	s	404	2100K	21	9V 111mm pitch	m	111-3000mm	IP40	40	100mm/3.94"	0100	Single Luna (2P) tail	500C	77mm/3.03" ¹	0077	DC 12V	f										
				2300K	23	9V 77mm pitch	m	77-2000mm	IP65	65	1000mm/39.37"	1000							111mm/4.37" ²	0111								
				2500K	25	12V 111mm pitch	m	111-8000mm	IP68	68											Double Luna (2P) tail	D00C						
				2700K	27	12V 77mm pitch	m	77-6000mm																				
				3000K	30	9V 4.37" pitch	i	4.37-118.11in																				
				3200K	32	9V 3.03" pitch	i	3.03-78.74in																				
				3500K	35	12V 4.37" pitch	i	4.37-314.96in																				
				4000K	40	12V 3.03" pitch	i	3.03-236.22in																				
				5000K	50																							
				RED	RED	s-only																						
				GREEN	GRN																							
				BLUE	BLU																							
				ORANGE	ORN																							
AMBER	AMB																											

¹ 13 modules per metre @ 77mm/3.03" pitch

² 9 modules per metre @ 111mm/4.37" pitch

* Refer to **LED Grading Key** on **Specification sheet** page

** Refer to **Length Availability List** or enter total run length instead of length code

*** Refer to **Power Feed Options** on **Options** pages

Code Example:

QL	-	s	-	404	-	30	-	m	-	1000	-	65	-	1000	-	D00C	-	0077	-	f
Quadro Luna		s		Luna		3000K				1000mm		IP65		1000mm/39.37"		Double Luna (2P) tail		77mm/3.03"		DC 12V

ACCESSORIES

PSU/Driver

0-10V/1-10V/Dali/DMX

* Refer to **Driver/PSU Options** page for details or provide requirement and KKDC to offer the suitable option

LED ENGINE VARIANTS (LED STRIP TYPE)

Luminaire	Output	LED	Lumen/m	Lumen/ft	W/m	W/ft	Spec Doc	Length
Quadro Luna	Mid	404	930	283	9.7	2.96	Quadro Luna	111-8000mm/4.37-314.96in (9V or 12V 111mm/4.37" pitch)
Quadro Luna RGB		402	Red 85 Green 225 Blue 36 RGB 322	Red 26 Green 69 Blue 11 RGB 98	9.7	2.96	Quadro Luna RGB	77-8000mm/3.03-314.96in (9V or 12V 111mm/3.03" pitch)

* Performance data: s/e-line, clear cover, 9V DC 13 Modules (77mm/3.03" pitch), 3000K

Flexible

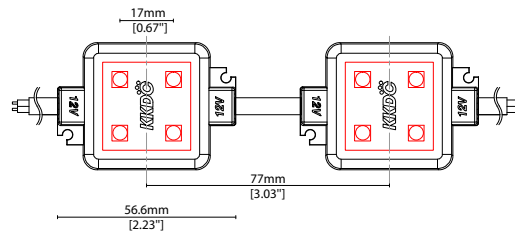
Quadro Luna (9V 77mm)

Length Availability List

KKDC

Length Code		Fixture Length ¹		LED Modules	End Cap Dimension		Wattage (W)	Output (lm)	
Metric	Imperial(US)	Metric	Imperial(US)	Quantity	Metric	Imperial(US)		3000K (Test Data)	Range Data
m0077	i0003	77mm	3.03in	1ea	N/A	N/A	0.81	72	57-75
m0154	i0006	154mm	6.06in	2ea	N/A	N/A	1.62	144	115-149
m0231	i0009	231mm	9.09in	3ea	N/A	N/A	2.43	215	172-224
m0308	i0012	308mm	12.11in	4ea	N/A	N/A	3.24	287	230-299
m0385	i0015	385mm	15.14in	5ea	N/A	N/A	4.05	359	287-373
m0462	i0018	462mm	18.17in	6ea	N/A	N/A	4.86	431	344-448
m0538	i0021	538mm	21.20in	7ea	N/A	N/A	5.67	502	402-522
m0615	i0024	615mm	24.23in	8ea	N/A	N/A	6.48	574	459-597
m0692	i0027	692mm	27.26in	9ea	N/A	N/A	7.29	646	517-672
m0769	i0030	769mm	30.28in	10ea	N/A	N/A	8.10	718	574-746
m0846	i0033	846mm	33.31in	11ea	N/A	N/A	8.91	789	632-821
m0923	i0036	923mm	36.34in	12ea	N/A	N/A	9.72	861	689-896
m1000	i0039	1000mm	39.37in	13ea	N/A	N/A	10.53	933	746-970
m1077	i0042	1077mm	42.40in	14ea	N/A	N/A	11.34	1005	804-1045
m1154	i0045	1154mm	45.43in	15ea	N/A	N/A	12.15	1076	861-1120
m1231	i0048	1231mm	48.46in	16ea	N/A	N/A	12.96	1148	919-1194
m1308	i0051	1308mm	51.48in	17ea	N/A	N/A	13.77	1220	976-1269
m1385	i0055	1385mm	54.51in	18ea	N/A	N/A	14.58	1292	1033-1343
m1462	i0058	1462mm	57.54in	19ea	N/A	N/A	15.39	1364	1091-1418
m1538	i0061	1538mm	60.57in	20ea	N/A	N/A	16.20	1435	1148-1493
m1615	i0064	1615mm	63.60in	21ea	N/A	N/A	17.01	1507	1206-1567
m1692	i0067	1692mm	66.63in	22ea	N/A	N/A	17.82	1579	1263-1642
m1769	i0070	1769mm	69.65in	23ea	N/A	N/A	18.63	1651	1320-1717
m1846	i0073	1846mm	72.68in	24ea	N/A	N/A	19.44	1722	1378-1791

¹ See Wiring guide for Maximum Length



Flexible

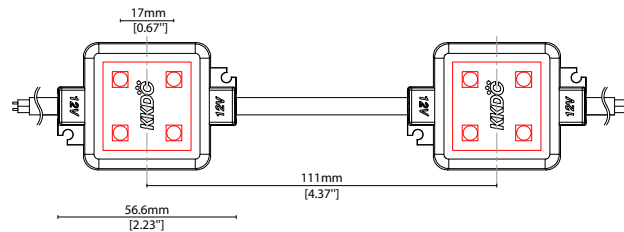
Quadro Luna (9V 111mm)

Length Availability List

KKDC

Length Code		Fixture Length ¹		LED Modules	End Cap Dimension		Wattage (W)	Output (lm)	
Metric	Imperial(US)	Metric	Imperial(US)	Quantity	Metric	Imperial(US)		3000K (Test Data)	Range Data
m0111	i0004	111mm	4.37in	1ea	N/A	N/A	0.81	72	57-75
m0222	i0009	222mm	8.75in	2ea	N/A	N/A	1.62	144	115-149
m0333	i0013	333mm	13.12in	3ea	N/A	N/A	2.43	215	172-224
m0444	i0018	444mm	17.50in	4ea	N/A	N/A	3.24	287	230-299
m0556	i0022	556mm	21.87in	5ea	N/A	N/A	4.05	359	287-373
m0667	i0026	667mm	26.25in	6ea	N/A	N/A	4.86	431	344-448
m0778	i0031	778mm	30.62in	7ea	N/A	N/A	5.67	502	402-522
m0889	i0035	889mm	35.00in	8ea	N/A	N/A	6.48	574	459-597
m1000	i0039	1000mm	39.37in	9ea	N/A	N/A	7.29	646	517-672
m1111	i0044	1111mm	43.74in	10ea	N/A	N/A	8.10	718	574-746
m1222	i0048	1222mm	48.12in	11ea	N/A	N/A	8.91	789	632-821
m1333	i0052	1333mm	52.49in	12ea	N/A	N/A	9.72	861	689-896
m1444	i0057	1444mm	56.87in	13ea	N/A	N/A	10.53	933	746-970
m1556	i0061	1556mm	61.24in	14ea	N/A	N/A	11.34	1005	804-1045
m1667	i0066	1667mm	65.62in	15ea	N/A	N/A	12.15	1076	861-1120
m1778	i0070	1778mm	69.99in	16ea	N/A	N/A	12.96	1148	919-1194
m1889	i0074	1889mm	74.37in	17ea	N/A	N/A	13.77	1220	976-1269
m2000	i0079	2000mm	78.74in	18ea	N/A	N/A	14.58	1292	1033-1343
m2111	i0083	2111mm	83.11in	19ea	N/A	N/A	15.39	1364	1091-1418
m2222	i0087	2222mm	87.49in	20ea	N/A	N/A	16.20	1435	1148-1493
m2333	i0092	2333mm	91.86in	21ea	N/A	N/A	17.01	1507	1206-1567
m2444	i0096	2444mm	96.24in	22ea	N/A	N/A	17.82	1579	1263-1642
m2556	i0101	2556mm	100.61in	23ea	N/A	N/A	18.63	1651	1320-1717
m2667	i0105	2667mm	104.99in	24ea	N/A	N/A	19.44	1722	1378-1791

¹ See Wiring guide for Maximum Length



Flexible

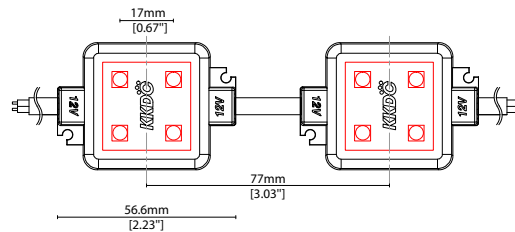
Quadro Luna (12V 77mm)

Length Availability List

KKDC

Length Code		Fixture Length ¹		LED Modules	End Cap Dimension		Wattage (W)	Output (lm)	
Metric	Imperial(US)	Metric	Imperial(US)	Quantity	Metric	Imperial(US)		3000K (Test Data)	Range Data
m0077	i0003	77mm	3.03in	1ea	N/A	N/A	1.08	70	56-73
m0154	i0006	154mm	6.06in	2ea	N/A	N/A	2.16	140	112-145
m0231	i0009	231mm	9.09in	3ea	N/A	N/A	3.23	210	168-218
m0308	i0012	308mm	12.11in	4ea	N/A	N/A	4.31	279	224-291
m0385	i0015	385mm	15.14in	5ea	N/A	N/A	5.39	349	279-363
m0462	i0018	462mm	18.17in	6ea	N/A	N/A	6.47	419	335-436
m0538	i0021	538mm	21.20in	7ea	N/A	N/A	7.55	489	391-509
m0615	i0024	615mm	24.23in	8ea	N/A	N/A	8.62	559	447-581
m0692	i0027	692mm	27.26in	9ea	N/A	N/A	9.70	629	503-654
m0769	i0030	769mm	30.28in	10ea	N/A	N/A	10.78	699	559-726
m0846	i0033	846mm	33.31in	11ea	N/A	N/A	11.86	768	615-799
m0923	i0036	923mm	36.34in	12ea	N/A	N/A	12.94	838	671-872
m1000	i0039	1000mm	39.37in	13ea	N/A	N/A	14.01	908	726-944
m1077	i0042	1077mm	42.40in	14ea	N/A	N/A	15.09	978	782-1017
m1154	i0045	1154mm	45.43in	15ea	N/A	N/A	16.17	1048	838-1090
m1231	i0048	1231mm	48.46in	16ea	N/A	N/A	17.25	1118	894-1162
m1308	i0051	1308mm	51.48in	17ea	N/A	N/A	18.33	1188	950-1235
m1385	i0055	1385mm	54.51in	18ea	N/A	N/A	19.40	1257	1006-1308
m1462	i0058	1462mm	57.54in	19ea	N/A	N/A	20.48	1327	1062-1380
m1538	i0061	1538mm	60.57in	20ea	N/A	N/A	21.56	1397	1118-1453
m1615	i0064	1615mm	63.60in	21ea	N/A	N/A	22.64	1467	1174-1526
m1692	i0067	1692mm	66.63in	22ea	N/A	N/A	23.72	1537	1229-1598
m1769	i0070	1769mm	69.65in	23ea	N/A	N/A	24.79	1607	1285-1671
m1846	i0073	1846mm	72.68in	24ea	N/A	N/A	25.87	1677	1341-1744

¹ See Wiring guide for Maximum Length



Flexible

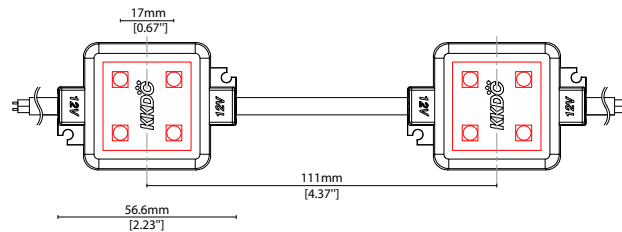
Quadro Luna (12V 111mm)

Length Availability List

KKDC

Length Code		Fixture Length ¹		LED Modules	End Cap Dimension		Wattage (W)	Output (lm)	
Metric	Imperial(US)	Metric	Imperial(US)	Quantity	Metric	Imperial(US)		3000K (Test Data)	Range Data
m0111	i0004	111mm	4.37in	1ea	N/A	N/A	1.08	71	56-73
m0222	i0009	222mm	8.75in	2ea	N/A	N/A	2.16	141	113-147
m0333	i0013	333mm	13.12in	3ea	N/A	N/A	3.23	212	169-220
m0444	i0018	444mm	17.50in	4ea	N/A	N/A	4.31	282	226-293
m0556	i0022	556mm	21.87in	5ea	N/A	N/A	5.39	353	282-367
m0667	i0026	667mm	26.25in	6ea	N/A	N/A	6.47	423	338-440
m0778	i0031	778mm	30.62in	7ea	N/A	N/A	7.55	494	395-513
m0889	i0035	889mm	35.00in	8ea	N/A	N/A	8.62	564	451-587
m1000	i0039	1000mm	39.37in	9ea	N/A	N/A	9.70	635	508-660
m1111	i0044	1111mm	43.74in	10ea	N/A	N/A	10.78	705	564-733
m1222	i0048	1222mm	48.12in	11ea	N/A	N/A	11.86	776	620-807
m1333	i0052	1333mm	52.49in	12ea	N/A	N/A	12.94	846	677-880
m1444	i0057	1444mm	56.87in	13ea	N/A	N/A	14.01	917	733-953
m1556	i0061	1556mm	61.24in	14ea	N/A	N/A	15.09	987	790-1026
m1667	i0066	1667mm	65.62in	15ea	N/A	N/A	16.17	1058	846-1100
m1778	i0070	1778mm	69.99in	16ea	N/A	N/A	17.25	1128	902-1173
m1889	i0074	1889mm	74.37in	17ea	N/A	N/A	18.33	1199	959-1246
m2000	i0079	2000mm	78.74in	18ea	N/A	N/A	19.40	1269	1015-1320
m2111	i0083	2111mm	83.11in	19ea	N/A	N/A	20.48	1340	1072-1393
m2222	i0087	2222mm	87.49in	20ea	N/A	N/A	21.56	1410	1128-1466
m2333	i0092	2333mm	91.86in	21ea	N/A	N/A	22.64	1481	1184-1540
m2444	i0096	2444mm	96.24in	22ea	N/A	N/A	23.72	1551	1241-1613
m2556	i0101	2556mm	100.61in	23ea	N/A	N/A	24.79	1622	1297-1686
m2667	i0105	2667mm	104.99in	24ea	N/A	N/A	25.87	1692	1354-1760

¹ See Wiring guide for Maximum Length





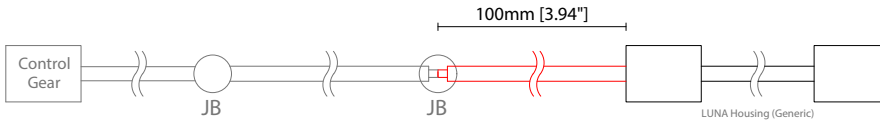
Quadro Luna Options



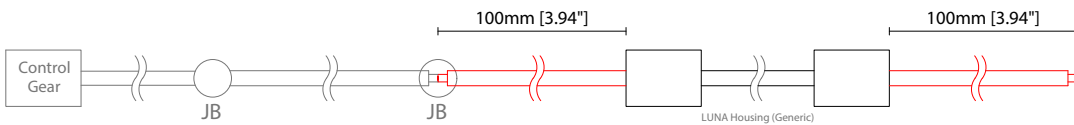
POWER FEED OPTIONS

* Options are an integral part of the fixture ordering codes. Please refer to **Code Table** pages.

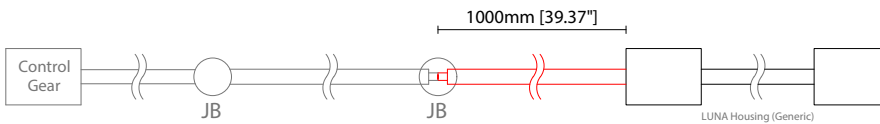
0100 S00C 100mm (3.94") Single Luna (2P) tail



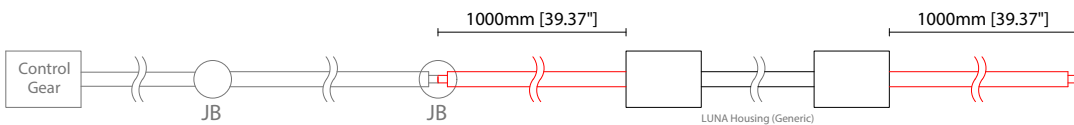
0100 D00C 100mm (3.94") Double Luna (2P) tail



1000 S00C 1000mm (39.37") Single Luna (2P) tail



1000 D00C 1000mm (39.37") Double Luna (2P) tail



Key

Control Gear Power supply, sub-controllers & control systems

JB Junction box / cable connection

Flexible

Quadro Luna Accessories

KKDC

KKDC CONTROL

Note: Accessories are to be ordered separately with corresponding code shown below.



IP20
Black plastic housing
L164/W64/H34mm
(L6.46/W2.52/H1.34in)

KKDM-05 1-10V
visDIM dimmable sub-controller



IP20
Black plastic housing
L164/W64/H34mm
(L6.46/W2.52/H1.34in)

KKSC-03A DMX (screw terminal)
visDIM dimmable sub-controller



IP20
Black plastic housing
L164/W64/H34mm
(L6.46/W2.52/H1.34in)

KKSC-03B DMX (RJ45)
visDIM dimmable sub-controller



IP20
Plastic housing
L170/W59/H29mm
(L6.69/W2.32/H1.14in)

KKDL-02 DALI
visDIM dimmable sub-controller
(4 x 8A max @ 12-36V)



IP20
Plastic housing
L166/W53.4/H23mm
(L6.54/W2.10/H0.91in)

KKDL-03 DALI
visDIM dimmable sub-controller
(4 x 5A max @ 12-36V)

AVAILABLE PSU OPTIONS

Control Mode	PSU (Order Code)	Input Voltage AC	Output Voltage DC	Rated Output Current	Rated Power	Dim %	IP Rating
Switched	CEN-60-12	90-295V	12V	5.0A	60W	-	IP67
	HLG-80H-12	90-305V	12V	5.0A	60W	-	IP67
	HLG-120H-12	90-305V	12V	10.0A	120W	-	IP67
	HLG-150H-12	90-305V	12V	12.5A	150W	-	IP67
	HLG-240H-12	90-305V	12V	16.0A	192W	-	IP67
0-10V (1-10V)	PWM-40-12	90-305V	12V	3.34A	40W	100-0.15 (100-10)	IP67
	PWM-60-12	90-305V	12V	2.5A	60W	100-0.15 (100-10)	IP67
	PWM-90-12	90-305V	12V	3.67A	90W	100-0.15 (100-10)	IP67
	PWM-120-12	90-305V	12V	10.0A	120W	100-0.15 (100-10)	IP67
DALI	LIN100A1	120-277V	12V	2.08A per channel	100W	100-0.1	IP66/IP40
DMX RGB	LIN100A1	120-277V	12V	2.76A per channel	100W	100-0.1	IP66/IP40
DMX RGBW	LIN100A1	120-277A	12V	2.08A per channel	100W	100-0.1	IP66/IP40

Flicker Free Options - Combination of PSU+ sub-controller

Control Mode	PSU (Order Code)	Sub-controller (Order Code)	Input Voltage AC	Output Voltage DC	Rated Output Current	Rated Power	Dim %	IP Rating PSU/ Sub-controller
0-10V or 1-10V	HLG-80H-12	KKDM-05	90-305V	12V	5.0A	60W	100-0.9	IP67/IP20
	HLG-120H-12	KKDM-05	90-305V	12V	10.0A	120W	100-0.9	IP67/IP20
	HLG-150H-12	KKDM-05	90-305V	12V	12.5A	150W	100-0.9	IP67/IP20
	HLG-240H-12	KKDM-05	90-305V	12V	16.0A	192W	100-0.9	IP67/IP20
DALI	CEN-60-12	KKDL-02/03	90-295V	12V	2.5A	60W	100-0.1	IP67/IP20
	HLG-80H-12	KKDL-02/03	90-305V	12V	2.5A	60W	100-0.1	IP67/IP20
	HLG-120H-12	KKDL-02/03	90-305V	12V	10.0A	120W	100-0.1	IP67/IP20
	HLG-150H-12	KKDL-02/03	90-305V	12V	12.5A	150W	100-0.1	IP67/IP20
	HLG-240H-12	KKDL-02/03	90-305V	12V	16.0A	192W	100-0.1	IP67/IP20
DMX RGB	HLG-80H-12	KKSC-03	90-295V	12V	5.0A	60W	100-0.9	IP67/IP20
	HLG-120H-12	KKSC-03	90-295V	12V	10.0A	120W	100-0.9	IP67/IP20
	HLG-150H-12	KKSC-03	90-305V	12V	12.5A	150W	100-0.9	IP67/IP20
	HLG-240H-12	KKSC-03	90-305V	12V	16.0A	192W	100-0.9	IP67/IP20

¹ The items shown above cover the most frequently used specification but does not exhaust the possible options

² PSU and/or driver can be chosen from the table, or KKDC may recommend the best option upon receipt of the controls requirement and installation environment

³ Electrical shop drawing will include detailed information of PSU and relevant control drivers

⁴ Cut sheets are available on the controls section of www.kkdc.lighting or upon request