



LLCV-Series

Modular LED Bars

Customizable LED lighting platform, designed for seamless integration into diverse rack and room configurations. Mix-n-match different fixture lengths and spectra on a single mains input (constant voltage), to optimally illuminate your growing area. Exceptional thermal stability and chemical resistance.



-  Mix-n-match spectra and fixture lengths on a single driver
-  IP66 – dust and humidity resistant (wet location rated)
-  Dimmable, control system-compatible and easy-to-install

Spectrum	UV %	B %	G %	R %	FR %	PAR %	CCT	CRI	B:G	B:R	R:FR	Rs:FRs
NS12	1	20	38	36	5	94	4500	90	0.5	0.6	6.1	4.3
Lumi-CS	0	19	36	38	7	93	4300	94	0.5	0.5	5.3	3.8
AP673L	0	10	19	63	8	92	2000	60	0.6	0.2	7.9	5.5
AP67	0	12	16	57	15	85	2500	70	0.5	0.2	3.7	3.3
G2	0	9	2	66	23	77	NA	NA	3.6	0.1	2.8	2.8
Far Red	0	0	0	4	96	4	NA	NA	NA	NA	0.04	0.04

Typical values presented in the tables. Custom spectra available upon request. Rs:FRs (Sellaro et. al. 2010)

INSTALLATION EXAMPLE 1

Perpendicular setup

COMPONENTS

Driver

2-node splitter

4-node splitter

Mounting rail kit

INSTALLATION EXAMPLE 2

Setup with different lengths

COMPONENTS

Driver

Backbone cable

Endcap

	LLCV60	LLCV90	LLCV120	LLCV150
Dimensions, L x W x H (mm)	572 × 37 × 13	872 × 37 × 13	1172 × 37 × 13	1472 × 37 × 13
Dimensions, L x W x H (in)	22.5 × 1.45 × 0.5	34.3 × 1.45 × 0.5	46.1 × 1.45 × 0.52	56 × 1.45 × 0.5
Weight (kg/lb)	0,19 / 0.42	0,29 / 0.64	0,39 / 0.86	0,49 / 1.08
Power (W)	23	35	46	57
Power (W) Far Red	NA	17	23	28
IP	66 (wet location)	Dimming (V)		0-10 (PWM); Dali option available

Light Output (μmol/s)	LLCV60 (LL060_CV23E_spectrum code)	LLCV90 (LL090_CV35E_spectrum code)	LLCV120 (LL120_CV46E_spectrum code)	LLCV150 (LL150_CV58E_spectrum code)
NS12 (fixture code_31)	51	77	101	125
Lumi-CS (fixture code_35)	48	74	97	120
AP673L (fixture code_20)	48	74	97	120
AP67 (fixture code_10)	48	74	97	120
G2 (fixture code_60)	48	74	97	120
Far Red (fixture code_50)	NA	53	69	84

Please use the product code listed below each item, along with the number shown under the spectra, to form the complete product code for your order. The information presented in the tables above is for single light bars.

Max no. of Fixtures (per one power supply unit)	LLCV60	LLCV90	LLCV120	LLCV150
60W PSU	2	1	1	1
240W PSU	10	6	5	4
320W PSU	13	9	6	5
600W PSU	26	17	13	10

DRIVERS

60W

LL_DRV_CV_60W

240W

LL_DRV_CV_240W

320W

LL_DRV_CV_320W

CABLING

OPTION 1

2000 mm

M15

2000 mm

M15

2000 mm

M15

2-node

GL0050

3-node

GL0047

4-node

GL0048

or

300 mm

260 mm

300 mm

M15

80 mm

M15

M15

T-connector

GL0060

or

1 m

M15

M15

Extension Cable

GL0083

or additional nodes, T-connectors, and extension cables as needed (all connectors are M15).

OPTION 2

600W

LL_DRV_CV_600W

T-Bone Cable

GL0082

100 mm

100 mm

100 mm

M15

M25

M15

The T-Bone cable splits the main line into two, allowing further connection with:

Fixtures

Nodes

T-Connector

Node Endcap

GL0061

or

Backbone Cable

GL0058

1300 mm

1500 mm

1500 mm

1500 mm

100 mm

M25

M15

M15

M15

M15

M25

Cable Endcap

GL0065

Mandatory on cable end.

OR Extension Options:

Backbone Cable (GL0058)

Extension Cable (GL0059)

T-Bone Cable (GL0082)

COMPONENTS

Driver

2-node splitter

4-node splitter

Mounting rail kit

COMPONENTS

Driver

Backbone cable

Endcap

A. Mounting Rail Kit

Mounting Rail Kit Option: Includes 2 rails and hangers tailored for the selected number of fixtures.

580 mm

+

+

+

2-bar Kit

LLFIX_K2

3-bar Kit

LLFIX_K3

4-bar Kit

LLFIX_K4

You are also able to purchase these items separately.

Mounting Rail Kit Hanger

GL0011

Mounting Rail

GL0012

580 mm

+

+

B. Standard Clip

Hanger

GL0010

Hangers can be installed using screws or zip ties.

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Power factor	> 0.95	Frequency (Hz)	50/60
Recommended distance from plants (m/in-ft)	0,1 - 1 / 0.39 - 3.28	Min. distance to combustible surfaces (m/in)	0,1 / 3.94
Cooling	Passive	Storage temperature (°C/°F)	-20...+45 / -4...+113
Ambient operating temp. (°C/°F)	-20...+45 / -4...+113	Max. allowed Tc temp. (°C/°F)	+70 / +158
Minimum cable bending radius	5x cable diameter	Maximum relative humidity (%)	90 (non-condensing)
Light intensity decay (hrs)	Q90 50 000 (Lumi-CS, Far Red) Q90 35 000 (AP67, AP673L, NS12, G2)	Insulation class	Class 1 - For Fixed Installations
Certification and approvals	CE, RoHS, EMC, Low Voltage Directive, Eco-design (EuP)	Photobiology safety classif.	Risk Group 1
		Warranty	Up to 5 years limited. More at valoya.com/warranty

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Research-Grade Horticultural Lighting

Two decades of innovation in LED lighting for plant science and commercial cultivation.

Headquarters

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