VALOYA

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)

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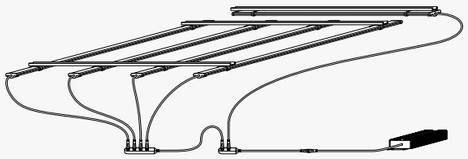
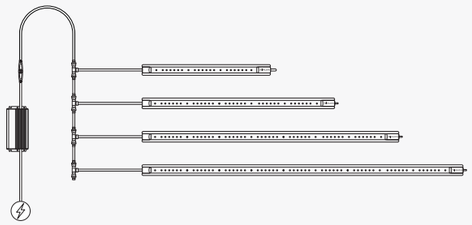
INSTALLATION EXAMPLE 1
Perpendicular setup



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

V2026.07

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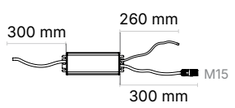
DRIVERS | **CABLING** | **MOUNTING**

OPTION 1

60W
LL_DRV_CV_60W

240W
LL_DRV_CV_240W

320W
LL_DRV_CV_320W



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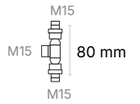
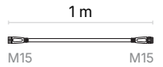
2-node GL0050 | **3-node** GL0047 | **4-node** GL0048

or



T-connector
GL0060

or



Extension Cable
GL0083

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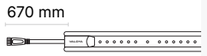

Node Endcap
GL0061

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

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A. Mounting Rail Kit

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

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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

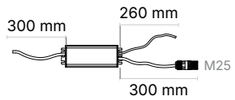
B. Standard Clip

Hanger
GL0010

Hangers can be installed using screws or zip ties.

OPTION 2

600W
LL_DRV_CV_600W



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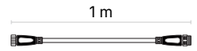
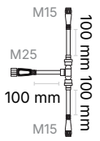
Extension Cable
(T-Bone/Backbone)
GL0059



Can be used after the driver, between two backbone cables or T-bone cables.

T-Bone Cable
GL0082

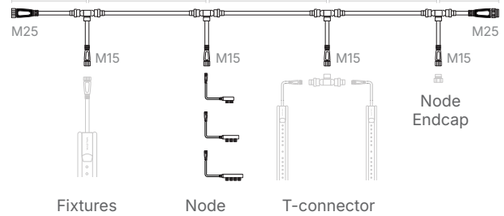


The T-Bone cable splits the main line into two, allowing further connection with:

Fixtures | Nodes | T-Connector | Node Endcap GL0061

or

Backbone Cable
GL0058



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Cable Endcap
GL0065
Mandatory on cable end.

OR Extension Options:

Backbone Cable (GL0058)

Extension Cable (GL0059)

T-Bone Cable (GL0082)

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
		Photobiology safety classif.	Risk Group 1
Certification and approvals	CE, RoHS, EMC, Low Voltage Directive, Eco-design (EuP)	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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