

DGT FL300 Sunlight LED Grow Light

Full-spectrum LED lighting that behaves like the sun

The FL300 Sunlight is the LED fixture for growers who need light that behaves like the sun: a full spectral profile across the photosynthetically active region, with white light that shows the crop in its true colours. It suits research houses, climate chambers, garden centres and any production where light quality matters as much as intensity.

Two patented systems set it apart. The optical lens system spreads light in a homogeneous distribution profile at plant level, so an FL300 installation can follow a traditional HPS layout plan without dark corners or hot spots. Patented active cooling keeps diode temperature low, protecting output and lifetime over years of daily use.

Intensity is dimmable from 20 to 100%, so one fixture serves a crop from propagation through to finishing. Control integrates directly with the DGT LCC4 climate computer, through a compact control unit running up to 49 fixtures, or via the LED Light Controller alongside a third-party climate computer.

Key capabilities

- Full sunlight-like spectrum; white light for true colour representation
- Spectral balance close to natural sunlight across the PAR region
- Dimmable 20-100% intensity for every production stage
- Patented active cooling for low diode temperature and long lifetime
- Patented optical lens system - installs on a traditional HPS plan
- Controls via DGT LCC4, control unit (up to 49 fixtures) or LED Light Controller
- 254 diodes | PPF 818 $\mu\text{mol/s}$ | fixture efficacy 1.78 $\mu\text{mol/s per watt}$
- Coverage from 0.25 to 12 m² depending on intensity
- CE marked and RoHS compliant

Technical specifications

Power input	230 V AC, 50/60 Hz
Nominal current	2.0 A
Power usage	100 - 460 W, adjustable via controller
PPF	818 $\mu\text{mol/s}$
Fixture efficacy	1.78 $\mu\text{mol/s per watt}$ (diodes: 1.95 $\mu\text{mol/J}$)
Light modulation	20 - 100% intensity
Coverage area	0.25 - 12 m ² , intensity-dependent
Spectral balance (share of PAR)	approx. 33% at 400-500 nm, 40% at 500-600 nm, 27% at 600-700 nm - closely tracking natural sunlight
Operating temperature	0 - 40°C
Dimensions (L x W x H)	550 x 230 x 160 mm
Weight	12.4 kg

Sitetechn Irrigation Ltd is the main UK distributor for DGT by Senmatic. We specify, install, commission and support every system we supply, and design it into the wider irrigation and climate setup on your site. For sizing, integration or a site

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visit, call Simon on 07881 271 117 or email simon@sitetech.uk.