

DGT FL300 Grow LED Grow Light

The 500 W class, actively cooled Grow top-light

The FL300 Grow is a high-output LED top-light in the 500 W class, finished in a compact 550 x 230 x 160 mm housing. It carries the Grow spectrum and delivers a PPF of 1600 $\mu\text{mol/s}$ from a 230 V connection, suited to production greenhouses and research glasshouses.

Blue light is adjustable from 2 to 14 % of the total, with 1 to 5 % green and white, and the power draw can be dimmed between 100 and 500 W. An active cooling system keeps the LEDs at a low temperature, and a lens system gives an even pattern so layouts can follow familiar HPS principles.

The fixture is CE marked to horticultural lighting standards and RoHS compliant. It can be controlled by an LCC4 climate computer, a Control Unit or the LED Light Controller, and suits hybrid installations alongside HPS.

Key capabilities

- 500 W class top-light for production greenhouses and research
- Grow spectrum with blue adjustable from 2 to 14 % of total light
- PPF of 1600 $\mu\text{mol/s}$ from a single 230 V fixture
- Dimmable from 100 to 500 W via the controller
- Patented active cooling system keeps LED temperature low
- Lens system for an HPS-style layout with even light on the crop
- Suited to hybrid installations alongside HPS
- CE marked to horticultural lighting standards and RoHS compliant
- Controlled by LCC4, a Control Unit (up to 49 fixtures) or the LED Light Controller
- Danish developed and manufactured since 2005

Technical specifications

Power input	230 V AC, 50/60 Hz
Nominal current	2.2 A
Power usage	100 - 500 W (adjusted via controller)
Cos ϕ	0.98
Light output from fixture	3.2 $\mu\text{mol/s}$ per W (depending on spectral settings)
PPF	1600 $\mu\text{mol/s}$
Light output from diodes	3.51 $\mu\text{mol/J}$
Light modulation range	2 - 14 % blue light of total light
Green / white content	1 - 5 % of total light (depending on spectral settings)
Coverage	Up to 12 m ² (depending on light intensity)
Operating temperature	0 - 40 °C
Dimensions (L x W x H)	550 x 230 x 160 mm
Weight	12.4 kg

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