

Artemis LED ECS300: 300W Grow Light for 600W HPS Replacement

A cost-effective, lower-risk HPS-to-LED path for hard-to-convert greenhouses



Built on the **patented, field-proven*** Artemis **Electromagnetic Current Source platform**, ECS300 combines LED efficiency with a simple, robust architecture designed for long service life and stable operation in demanding greenhouse environments.

Engineered for both hybrid HPS + LED and full-LED systems, it **reduces upfront CAPEX and operational risk** while providing a practical path to **the lowest possible total cost of ownership**. Tool-free service access and maintenance without shutting down the entire lighting line help minimize downtime, service complexity and lifecycle costs.

General Specifications

Parameter	Value
Rated Power	300W
Photon Efficacy	Up to 3.6 $\mu\text{mol}/\text{J}$
Input voltage	230/400 VAC
Power Factor	>0.98
Protection Rating	IP66
Lifetime	Up to 50,000 h
Dimensions (L x W x H)	430 x 260 x 70 mm
Weight	6.5 kg

Key Features

- 300W LED Replacement for 600W HPS
- Compatible with Hybrid HPS + LED and Full-LED Systems
- Patented, Field-Proven Electromagnetic Current Source Architecture
- Optimized for Lower Upfront CAPEX and the Lowest Possible TCO
- Tool-Free Service Without Full Lighting-Line Shutdown
- Standard and Custom Spectral Options Available

* The underlying ECS technology has been commercially deployed since 2016 in more than 1 million street lighting units, with a five-year failure rate below 0.02%.

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For product details and partnership inquiries: info@artemisled.com