TP-A300 Drone LED Lighting Unit



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1. Project Overview

We offer the TP-A300 drone LED lighting unit for tethered aerial lighting with third-party drone platforms. It comprises a light assembly and a supporting onboard lighting driver. Lamp quantity, mounting and the power arrangement are selected for the project.

The aluminum-alloy lamp supports remote on/off control, high-intensity and working-light modes, and adjustable angles. Quick-release mounting supports installation and removal. Intended applications include night search and rescue, event lighting, power-line inspection, flood response and lighting at disaster sites.



TP-A300 Lighting Unit

	
TP-A300 light assembly	**Lighting driver power supply**

Product Parameters

TP-A300 Light Unit Specifications		Lighting Driver Specifications	
Dimensions	140 mm × 45 mm × 20 mm (length × width × height)	Driver dimensions	123 mm × 93 mm × 50 mm (length × width × height)
Weight per lamp	145 g	Driver weight	550 g
Housing material	Aluminum alloy	Housing material	Aluminum alloy
Operating voltage	42 VDC	Input voltage range	20–60 VDC
Rated current	3.8 A	Power supply type	Constant current output
Maximum power per lamp	160 W	Connector type	XT60/XT30
Light source	LED	Temperature control	Temperature-controlled fan
Beam angle	60°	Efficiency	≥96%
Angle adjustment range	0-45°	Control method	remote control
Lateral adjustment range	0-30°	Heat dissipation method	Air-cooled heat dissipation
Control method	Remote-controlled switch	Power-off protection	Supported
Dimming mode	High-intensity light / working light	Protection rating	IP54
Mounting method	Clamp mount for drone landing gear; mounting can be customized	Mounting method	Screw mounting through the provided holes
Mounting tube diameter	16–20 mm	Protection functions	Overcurrent / overvoltage / short circuit

TP-A300 Lighting Product Images







Applications

TP-A300 is a drone lighting accessory with separate lamp and driver specifications. The 160 W maximum and 145 g weight apply to one lamp. The driver weighs 550 g; its input range is 20–60 VDC. IP54 is specified for the driver, not the complete aircraft or every component. Images of multi-lamp assemblies do not define the supplied quantity or total system power.

Emergency and rescue lighting: overhead supplemental lighting for nighttime search and rescue, fire-response planning and work at disaster sites.

Power-line inspection: supplemental lighting for nighttime inspection and repair of transmission towers, overhead cables and substations.

Events and temporary work: overhead supplemental lighting for outdoor gatherings, sporting events, entrances and site monitoring.

Flood and geological-hazard surveys: nighttime supplemental lighting for dike patrols and surveys of landslides, debris flows and collapse areas.