

# SP-401S SOLAR FATO LIGHT

# FINAL APPROACH AND TAKE-OFF AREA









### Compliance:

ICAO Annex 14 Vol. II (7th. Edition, July 2016) EASA CS-ADR-DSN FAA AC

## FEATURES

- · Operates 365 days on solar energy
- · Remote activation
- Night Vision Goggles (NVG) compatible

### APPLICATION

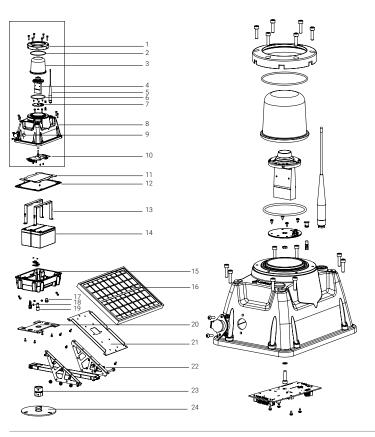
Autonomous solar helipad light designed for permanent usage at heliports, helipads, and landing zone areas located in regions without access to electricity and with high photovoltaic potential.

### **TECHNICAL SPECIFICATIONS**

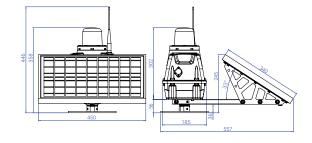
Optics		Environmental Conditions		
• 110 cd light output (peak)		<ul> <li>Temperature range: -20 to 50 °C (-4 to 122 °F)</li> <li>Optional: -40 to 80 °C (-40 to 176 °F)</li> </ul>		
Omnidirectional type		Ingress protection: IP-67 (tested by accredited laboratory)		
LED lifespan: 100.000 hrs		Impact Resistance: IK-10 (tested by accredited laboratory)		
• Max	kimum power consumption: 3,9W		ance: 240 kph (tested by accredited laboratory)	
NVG-compa tible, Infrared LEDs (optional)		Casing & Components		
,		Materials     Dome: glass, UV-resistant		
Color: white, yellow		Casing: Lexan polycarbonate, UV-stabilized, color: aviation yellow		
User-replaceable		Mounting: marine grade stainless steel		
Battery			ing: aluminum (tested by accredited laboratory)	
Standard battery	2x built-in batteries, user-replaceable, air transportable	Detachable antenna     Emergency ON/OFF button		
	<ul> <li>Autonomy: 180 hrs (minimum intensity)</li> </ul>	Pressure stabilizing valve, transportation fuse		
	Total capacity: 216W (2x9Ah/12V)	Battery level indicator		
	Deep-cycle VRLA, 12V/9Ah (available worldwide)	Carrying handle (optional) Casing lifespan: 15 years Disposarions (LMML) 1557 mm v 450 mm v 350 mm		
	Lifespan: 1.200 cycles (designed for 4-5 years)			
	1x built-in battery, user-replaceable, air transportable	<ul> <li>Dimensions (LxWxH): 557 mm x 450 mm x 358 mm</li> <li>Weight: 14,2 kg</li> </ul>		
Cyclon battery (Arctic Pack)	Autonomy: 100 hrs (minimum intensity)	Compliance		
	<ul> <li>Total capacity: 120W (10Ah/12V)</li> </ul>	Photometric & Chromaticity	ICAO, Annex 14th, Volume II, 7th Edition dated July 2016	
	Lifespan: 300 cycles (designed for 10-15 years)			
Solar Power Supply			ICAO Annex 14th, Volume II, 3rd Edition dated	
20W solar panel, separately installed		Jet Blast Resistance	1995, Doc 9261, clause 1.4.1.3	
Polycrystalline type (optional: monocrystalline)			ICAO, Annex 14th, Volume I, 8th Edition dated July 2018. Doc 9157, Part 6, clause 3.2.2 & clause 4.9.1.	
Lifespan: 15 years     Built-in inverter 12-36V/2A			FAA AC 150/5345-50B dated September 2007,	
-	t-in inverter 12-36V/ZA		clause 3.2.2	
Control & Monitoring	A Mesh wireless network	CE Declaration of	2014/53/EU RED Directive, clauses 3.1a, 3.1b, 3.2	
	rating frequency: 868 MHz (optional 2.4GHz or 433 Mhz)	Conformity	2011/65/EU ROHS Directive, clause 4.1	
• One	rating range: up to 1.5 km, relayed (each light is a repeater)	Accredited Laboratory Testing		
• Ope	rating Modes:	Jet Blast Resistance	Warsaw Institute of Aviation The Laboratory of Aerodynamics	
	Steady / Flashing / Dusk till dawn Visible / Infrared / Visible + Infrared		Laborex Research Laboratory	
• Acti	etivation options:	Ingress Protection	EMAG Institute of Innovative Technologies	
	Via UR-101 Handheld Controller		Laborex Research Laboratory	
	UR-201 Control & Monitoring Unit ALCMS Computer Interface (requires UR-201)	Electromagnetic Compatibility	Military Institute of Armament Technology	



### TECHNICAL DRAWING



1. Adapter for glass dome O-ring for the glass dome Glass dome LED optics Radio antenna for wireless control & monitoring O-ring under the glass dome PCB board Casing upper part Charging port 10. Micro-computer with integrated radio transceiver Protective plate Rubber gasket 12. 13. Battery holder 14. 2x batteries built- in, VRLA type 12V/9Ah 15. Casing bottom part 16. 20W Solar panel with standard optimal inclination Pressure stabilizing valve 17. Emergency ON/OFF button 18. 19. Transportation fuse 20. Mounting plate 21. Holding frame for solar panel 22. Holder for solar panel frame



23. Frangible coupling24. Base plate







### **SHIPPING DATA**

Item
SP-401 Lighting Unit
SP-401 Lighting Unit, NO batteries

Dimensions of Package (LxWxH)
630 mm x 270 mm x 380 mm
630 mm x 270 mm x 380 mm

Gross Weight	
15 kg	
9,8 kg	