WORLD'S SAFEST RUNWAY LIGHTING



SP-401S SOLAR OBSTRUCTION LIGHT TYPE A, LOW INTENSITY



The S4GA solar runway obstruction lights provide a permanent, reliable lighting solution for civil and military airports, while also serving as a backup system for airports with wired lighting infrastructure.

KEY FEATURES

- Solar-Powered
- Radio-Controlled
- Individual Light Status Monitoring



borosilicate hardened glass, UV-resistant

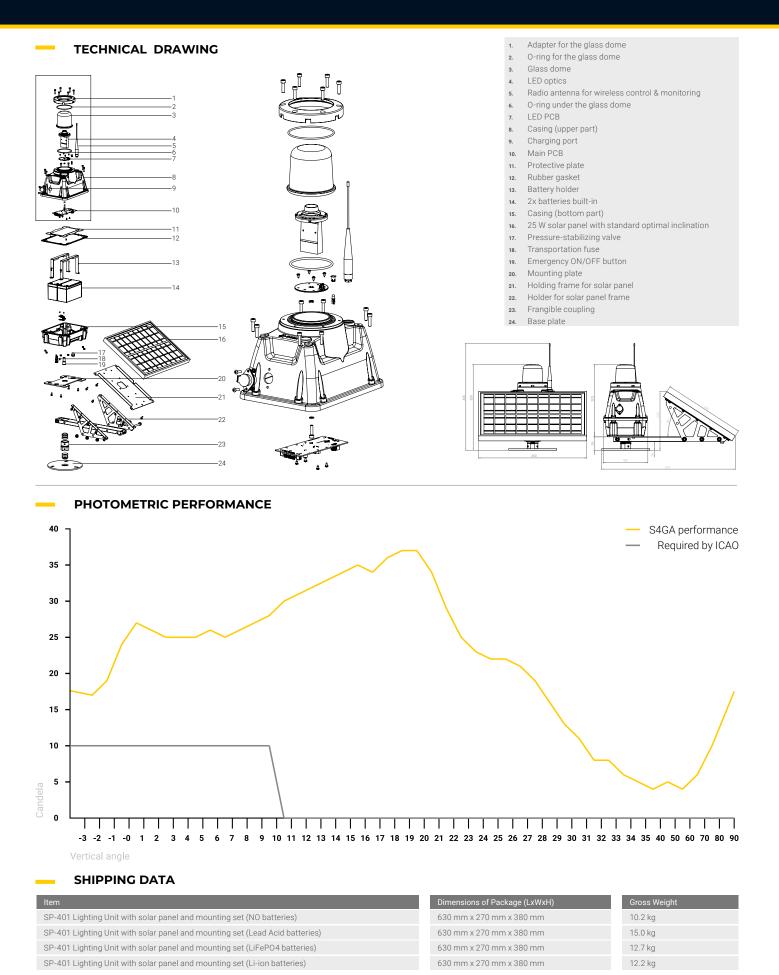
TECHNICAL SPECIFICATIONS

Optics		Casing & Components		
• Color	Color: red		Light body materials	
 37 cd light output (tested by accredited laboratory) 		Dome: borosilicate ha Casing: Lexan polycar		
Omnidirectional type				
LED lifespan: 100.000 hrs		Mounting components Material: marine grade Frangible coupling material		
Maximum power consumption: 0.6 W				
NVG-compatible, Infrared LEDs (optional)				
• User-	replaceable	Type: perm	anent / qui	
Battery	Ou built is bottorics upor replaceable sisteman stable	• Charging p drop-in cha		
Lead Acid (Standard)	2x built-in batteries, user-replaceable, air transportable Autonomy: 432 hrs (30% intensity)	Detachable antenna		
	Total capacity: 216 Wh (2 x 9 Ah / 12 V) Deep-cycle VRLA, 12 V / 9 Ah (available worldwide)	Pressure stabilizing va		
	Lifespan: 1,200 cycles (designed for 4-5 years)	Battery level indicator		
Li-ion	2x built-in batteries, user-replaceable, air transportable Autonomy: 816 hrs (30% intensity)	Carrying ha		
	Total capacity: 408 Wh (2 x 17 Ah / 12 V)	• Casing lifespan: 15 ye		
	Li-ion, 12 V / 17 Ah Lifespan: 3,000 cycles (designed for 6-7 years)	• Dimensions (LxWxH):		
LiFeP04	2x built-in batteries, user-replaceable, air transportable	Environmental Conditions • Temperature range: -2 Optional: -40 to 80 °C		
	Autonomy: 576 hrs (30% intensity)			
	Total capacity: 288 Wh (2 x 12 Ah / 12 V) LiFePO4, 12 V / 12 Ah			
	Lifespan: 3,000 cycles (designed for 6-7 years)	Ingress Protection: IP-		
	1x built-in battery, user-replaceable, air transportable	Impact Resistance: IK		
Lead Acid Cyclon	Autonomy: 240 hrs (30% intensity)			
(Arctic Pack)	Total capacity: 120 Wh (10 Ah / 12 V) Lifespan: 300 cycles (designed for 10-15 years)	Jet Blast Resistance: 2		
Solar Power Supply		Compliance		
	solar panel, separately installed	Photometric & Chromaticity	ICAO, A	
• Polyc	crystalline type (optional: monocrystalline)		July 20	
• Lifes	pan: 15 years		ICAO Do	
• MPP	T-Temp / Built-in inverter 12-36 V / 2 A	6, 1st E		
Control & Monitoring		Jet Blast Resistance	FAA AC	
Communication	Wireless mesh type network		clause 3	
Operating frequency	868 Mhz (optional 915 Mhz, 2.4 Ghz)		10100	
Operating modes	Ota a du / Ela a bia a / Duala till davua	Frangibility	ICAO Do	
	Steady / Flashing / Dusk till dawn Visible / Infrared (optional) / Visible + Infrared (optional)		6, 1st E	
	Visible / Initiated (optional) / Visible + Initiated (optional)		ICAO, A	
Activation options	Via ALCMS Computer Interface (requires UR-201)		July 20	
	Via UR-201 Control & Monitoring Unit Via UR-101 Handheld Controller		FAA AC	
Safety & Reliability	Via OR-101 Handheid Controller		FAA AC	
	evels of protection against system failure		ICAO, A	
 Five levels of protection against system failure Secondary power supply: backup battery 		Secondary Power Supply	clauses	
	time monitoring via ALCMS			
	eld Lighting Control and Monitoring System)	CE Declaration of Conformity	2014/53	
• Emergency ON/OFF button		201		

Dome: borosilicate hardened glass, UV-resistant Casing: Lexan polycarbonate, UV-stabilized,color: aviation yellow		
Material: m Frangible co	 Mounting components Material: marine grade stainless steel Frangible coupling material: aluminum (tested by accredited laboratory) Type: permanent / quick release (optional) 	
	ort: one port / two ports (optional) / rging port (optional)	
• Detachable	antenna	
Pressure st	tabilizing valve, transportation fuse	
Battery leve	el indicator	
Carrying ha	andle (optional)	
Casing lifes	span: 15 years	
Dimensions	s (LxWxH): 557 mm x 450 mm x 358 mm	
Environmental Conditions		
	• Temperature range: -20 to 50 °C (-4 to 122 °F) Optional: -40 to 80 °C (-40 to 176 °F)	
Ingress Pro	Ingress Protection: IP-68 (tested by accredited laboratory)	
Impact Res	sistance: IK-10 (tested by accredited laboratory)	
	esistance: 240 kph (tested by accredited laboratory)	
Compliance		
Photometric & Chromaticity	ICAO, Annex 14th, Volume I, 9th Edition dated July 2022, table 6-2, Appendix 1, Figure A1-1b	
	ICAO Doc 9157 AN901 Aerodrome Design Manual Part 6, 1st Edition dated 2006, clause 3.2.2 & clause 4.9.1	
Jet Blast Resistance	FAA AC 150/5345-50B dated September 2007, clause 3.2.2	
	ICAO Doc 9157 AN901 Aerodrome Design Manual Part 6, 1st Edition dated 2006, clause 4.9	
Frangibility	ICAO, Annex 14th, Volume I, 9th Edition dated July 2022, clause 5.3.1.3	
	FAA AC 150-5345-46E, clause 3.4.2.1	
	FAA AC 150/5220-23, clause 3.2	
Secondary Power Supply	ICAO, Annex 14th, Volume I, 7th Edition dated July 2016, clauses 8.1.8-8.1.9 & clause 8.1.11	
CE Declaration of Conformity	2014/53/EU RED Directive, clauses 3.1a, 3.1b, 3.2	
CE Declaration of Comolffilly	2011/65/EU ROHS Directive, clause 4.1	



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