



(1) **EU-Type Examination Certificate**

- (2) Equipment or protective system intended for use in potentially explosive atmospheres - **Directive 2014/34/EU**
- (3) Certificate number: **SEV 20 ATEX 0369 X**
- (4) Product: Portable Electric Hand Lamps
Type CES-EX-SC Series
- (5) Manufacturer: Shenzhen CESP Co., Ltd.
- (6) Address: 6th Fl Wangcheng Bldg, Longhua St, Longhua District, 518109
Shenzhen, Guangdong, China
- (7) The equipment and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.
- (8) Eurofins, notified body No. 1258, in accordance with article 17 of Directive 2014/34/EU of the European parliament and of the council, dated 26 February 2014, certifies that this product has been found to comply with the essential health and safety requirements relating to the design and construction of products intended for use in potentially explosive atmospheres given in Annex II to the Directive.
The examination and test results are recorded in confidential report no 20CH-00062.X01
- (9) Compliance with the essential health and safety requirements has been assured by compliance with:
EN 60079-1:2014
EN 60079-31:2014
EN 60079-7:2015
EN IEC 60079-0:2018
- Except in respect of those requirements listed at item 18 of the schedule.
- (10) If the sign «X» is placed after the certificate number, it indicates that the product is subjected to special conditions for safe use specified in the schedule to this certificate. The sign "U" is placed after the certificate number. It indicates that this certificate must not be mistaken for a certificate intended for an equipment or protective system. This partial certification may be used as a basis for certification of an equipment or protective system.
- (11) This EU type examination certificate relates only to design and construction of the specified product. Further requirements of this directive apply to the manufacturing process and supply of this product. These are not covered by this certificate.
- (12) The marking of the product shall include the following:



Eurofins Electric & Electronic Product Testing AG
Notified Body ATEX

Martin Plüss
Product Certification



(13)

Appendix

(14)

EU-Type Examination Certificate no. SEV 20 ATEX 0369 X

(15) **Description of product**

The CES-EX-SC Series LED Portable Electric Hand Lamps are mainly composed of JB chamber, power chamber and lighting chamber. The "eb" JB chamber consists of cable gland, handle (6063Al) and driver bottom housing (ADC12) with threaded joints. The "db" power chamber consists of driver bottom housing and driver top housing (ADC12) with threaded joints. The "db" lighting chamber consists of driver top housing and globe (tempered glass) with cemented joints and driver top housing and glass ring (6063Al) with threaded joints. Terminal is equipped within the JB chamber to provide electrical connection while the power driver is installed in the power chamber. One threaded hole on the handle is provided to install with Ex cable gland. Wirings between terminal and LED driver input, between the LED driver output and LED arrays are connected by cementing method. Internal earthings are provided.

The degree of protection of the enclosure is IP66, according to IEC 60079-0 and IEC 60529.

Type specifications:

Model	Power (W)	Input voltage 1: AC100V-277V; Frequency: 50/60Hz; Input voltage 2: DC110V ; Input voltage 3: DC12V-24V; Output voltage: 30-36Vdc CCT: 3000K/4000K/6500K Power factor:0.97 LEDs Type: (3V,1W) 3030							
		Input voltage (V)	Output current (A)	Input current (A)	Luminous flux (LM)	Light efficiency (Lm/W)	LEDs Chip	Power Model	Weights (kg)
CES-EX-SC30	30	AC 100-277	0.8	0.3-0.12	3000	100	72Pcs	HTUC9-030W-01-71-0700; □DC-1224-700;	2.4
		DC 110		0.28					
		DC 12-24		2.5-1.25					
CES-EX-SC20	20	AC 100-277	0.48	0.2-0.08	2000	100	72Pcs	HTUC9-030W-01-71-0700; □DC-1224-700;	2.4
		DC 110		0.18					
		DC 12-24		1.7-0.8					
CES-EX-SC10	10	AC 100-277	0.23	0.1-0.04	1000	100	72Pcs	HTUC9-030W-01-71-0700; □DC-1224-700;	2.4
		DC 110		0.09					
		DC 12-24		0.8-0.4					

Note: Power model : HTUC9-030W-01-71-0700 (Input voltage AC 100 V-277 V and DC 110 V) ;
Power model : DC-1224-700 (Input voltage DC 12 V - 24 V).

Ordering information:

CES-EX-SC**-A-B-C-D

CES- SHENZHEN CESP

EX- Hazardous Location

SC- Hand Lamps

**Power: 30 W; 20 W; 10 W

A- Protective Structure, 01: Four protective beams; 02: Full mesh; 03: Semi-mesh; 04: Three protective beams;

B- CCT, 01:3000 K; 02: 4000 K; 03: 6500 K

C-Other;

D-Other

(16) **Report number** 20CH-00062.X01

(17) **Specific conditions of use**

WARNING – DO NOT OPEN WHEN AN EXPLOSIVE ATMOSPHERE IS PRESENT

WARNING – DO NOT OPEN WHEN ENERGIZED

THE FLAMEPROOF JOINTS ARE NOT INTENDED TO BE REPAIRED.

(18) **Essential health and safety requirements**

In addition to the essential health and safety requirements (EHSRs) covered by the standards listed at item 9, the following are considered relevant to this product, and conformity is demonstrated in the report:

Clause	Subject
None	

(19) **Drawings and Documents**

See test report "Manufacturer's Documents"