



IECEx Certificate of Conformity

INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification Scheme for Explosive Atmospheres

for rules and details of the IECEx Scheme visit www.iecex.com

| | | | |
|--|---|-------------|----------------------------|
| Certificate No.: | IECEx ITS 08.0019 | issue No.:0 | Certificate history: |
| Status: | Current | | |
| Date of Issue: | 2008-05-30 | Page 1 of 3 | |
| Applicant: | EnerSys Inc. Rake Lane Swinton Manchester M27 8LR United Kingdom | | |
| Electrical Apparatus: | D series caplamp | | |
| <i>Optional accessory:</i> | | | |
| Type of Protection: | Ex I | | |
| Marking: | Ex I | | |
| <i>Approved for issue on behalf of the IECEx Certification Body:</i> | A T Austin | | |
| <i>Position:</i> | Technical Manager | | |
| <i>Signature: (for printed version)</i> | _____ | | |
| <i>Date:</i> | _____ | | |

1. This certificate and schedule may only be reproduced in full.
2. This certificate is not transferable and remains the property of the issuing body.
3. The Status and authenticity of this certificate may be verified by visiting the [Official IECEx Website](http://www.iecex.com).

Certificate issued by:

Intertek Testing & Certification Ltd
 ITS House, Cleeve Road,
 Leatherhead,
 Surrey, KT22 7SB
 United Kingdom

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Manufacturer: **EnerSys Inc.**
Rake Lane
Swinton
Manchester
M27 8LR
United Kingdom

Manufacturing location(s):

This certificate is issued as verification that a sample(s), representative of production, was assessed and tested and found to comply with the IEC Standard list below and that the manufacturer's quality system, relating to the Ex product covered by this certificate, was assessed and found to comply with the IECEx Quality system requirements. This certificate is granted subject to the conditions as set out in IECEx Scheme Rules, IECEx 02 and Operational Documents as amended.

STANDARDS:

The electrical apparatus and any acceptable variations to it specified in the schedule of this certificate and the identity documents, was found to comply with the following standards:

IEC 60079-0 : 2004 Electrical apparatus for explosive gas atmospheres - Part 0: General requirements
Edition: 4.0

IEC 62013-1 : 2005 Caplights for use in mines susceptible to firedamp Part 1: General requirements -
Edition: 2 Construction and testing in relation to the risk of explosion

*This Certificate **does not** indicate compliance with electrical safety and performance requirements other than those expressly included in the Standards listed above.*

TEST & ASSESSMENT REPORTS:

A sample(s) of the equipment listed has successfully met the examination and test requirements as recorded in

Test Report:

[GB/ITS/ExTR08.0017/00](#)

Quality Assessment Report:

[GB/SIR/QAR06.0051/00](#)



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Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

Energys caplamp comprising an L16 battery pack with the option of P, R or C battery covers; a D series headpiece and a connecting cable between the two parts. Alternatively previously certified battery packs identified as T6 and T5 (Ref Sira report R52A8331B) maybe used. The L16 battery pack is an 8 cell rechargeable lithium ion pack with all of the cells being connected in parallel. The cells are Panasonic CRG18650C/D type. A current protection board is located on top of the cells; this protection circuitry also includes two thermal cut-off fuses and two polyswitches which are located on the sides of the cells. The D-type headpiece is rated at 750mA; a 950mA version is also available and covered by this certificate.

| Title: | Drawing No.: | Rev. Level: | Date: |
|---|--------------|-------------|------------|
| Certified D-series Caplamps and Batteries | IECEx 30 | 0 | 2008-04-22 |

CONDITIONS OF CERTIFICATION: NO

