



中國驗船中心

CR Classification Society

Certificate No. 851-17-006

Date February 13, 2017

型式認可證書

Type Approval Certificate of Lighting Fixtures, LED

This is to certify that the **Products** manufactured by the works hereunder mentioned has been approved by this Society in accordance with the requirements given in Rules for the construction and classification of steel ships, 2013 and IEC 60079-0 Edition 6.0 2011-06, IEC 60079-1 Sixth edition 2007-04, IEC 60079-31 Edition 2.0 2013-11 as an approved type for use in ships classed or intended to be classed with the Society.

- Manufacturer : TOP HI-TECH CO., LTD
5F, NO.113, ZhongCheng Rd., TuCheng Dist., New Taipei City, Taiwan
R. O. C. 236
- Approved Products : LED Luminaires intended for use in hazardous area Zone 1, Zone 2, Zone 21 and Zone 22.
- Type Reports : EC-Type Examination Certificates issued by
TUV Rheinland: TUV 13 ATEX 7462 X 13th December 2013,
TUV 13 ATEX 7463 X 2014-04-24, TUV 13
ATEX 7464 X 2014-07-03 and
IECEX Certificate of Conformity: IECEX TUR 13.0016X 2013-12-13,
IECEX TUR 14.0019X 2014-04-24 and IECEX TUR 14.0025X 2014-07-03
Drawing No. L1217, Approval Drawing , Revision:0 Pages:1
Drawing No. L1217-1,Operation Instruction,Revision:0,Pages:1
Drawing No. L1217-2,Test Report-1,09-April-2015,Revision: 0,Pages: 1
Drawing No. L1217-3,Test Report-2,09-April-2015,Revision: 0,Pages: 1
Drawing No. P12-02-2,Test Report-1,22-May-2015,Revision: 0,Pages: 1
Drawing No. P1202,Approval Drawing,Revision: 0,Pages: 1
Drawing No. P1202-1,Operational Manual ,Revision: 0,Pages: 1
Drawing No. P1202-3,Test Report-2,22-May-2015,Revision: 0,Pages: 1

This approval is valid until February 13, 2022, but may be withdrawn in any alteration of design and/or construction which affects the quality of products.

KUEN-RONG CHENG

中國驗船中心總驗船師

Chief Surveyor

CR Classification Society

Rating :

TYPE	THT-L1102	THT-L1105A	THT-L1203	EX-THT-L1217	EX-THT-P1202
Temperature Rating	-20 Deg. C ~ +40 Deg. C				
Humidity Rating:	65%RH~100%RH				
Environment:	Hazardous, Chemical Corrosive, Salty, Dusty				
Hazardous Area Classification:	Zone 1 , Zone 2 , Zone 21, Zone 22 ,				
Voltage Rating	110 Vac or 220 Vac	110 Vac or 220 Vac	24 Vac or 110 Vac or 220 Vac	24 Vac or 110 Vac or 220 Vac	24 Vac or 110 Vac or 220 Vac
Frequency	50/60 Hz				
Power rating	60W , 80W or 100W	40W or 60W	20W	60W, 106W, 110W, 116W or 120W	40W
Hazardous Area Rating	II 2 G Ex d IIB+H2 T5...T4 Gb and II 2 D Ex tb IIIC T110 Deg.C Db	II 2 G Ex d IIB+H2 T5...T4 Gb and II 2 D Ex tb IIIC T108 Deg.C Db	II 2 G Ex d IIB+H2 T5...T4 Gb and II 2 D Ex tb IIIC T105 Deg.C Db	II 2 G Ex d IIB +H2 T6...T4 Gb and II 2 D Ex tb IIIC T105 Deg. C Db	II 2 G Ex d IIB T5 Gb and II 2 D Ex tb IIIC T100 Deg. C Db

- END of Certificate -

