| 8 FITTING SUPPORT POLYCARBONATE 3 3 FASCIA POLYCARBONATE 1 WHITTING SUPPORT POLYCARBONATE 1 2 BODY POLYCARBONATE 1 1 C SUPPORT POLYCARBONATE 1 C SUPPORT SUPPO | CAPACIT  |                       | Y  | SYM                  |                    |                                       | BOL/ SERIAL NO. |      | CIRCUIT DIAGRAM |  |   |   |   |
|--|--|-----------------------|--|----------------------|--------------------|---------------------------------------|-----------------|------|-----------------|--|---|---|---|
| 13W    SETTING HOLES 3-1 2-3   3   3   3   3   3   3   3   3   3   |  |                       |  | / 50/60Hz            |                    |                                       |                 |      |                 |  |   | -00-                                    |   |
| SETTING HOLES 3-U 3.3  3 19 RATTHERY  SECTION A-A  BATTERY CHARGING LINE (L'-N')  RECEP.  11 BATTERY  10 3P CONNECTOR  RECEP. & PLUG SET 1 3 5 REFLECTOR  PULYCARBONATE 1 MILE  10 3P CONNECTOR  RECEP. & PLUG SET 3 5 REFLECTOR  PULYCARBONATE 1 MILE  10 1 SP CONNECTOR  RECEP. & PLUG SET 1 3 MILE  10 1 SP CONNECTOR  RECEP. & PLUG SET 1 1 MILE  10 1 SP CONNECTOR  RECEP. & POLYCARBONATE 1 MILE  10 1 SP CONNECTOR  RECEP. & POLYCARBONATE 1 MILE  10 1 SP CONNECTOR  RECEP. & POLYCARBONATE 1 MILE  11 3P 4 DIFFUSER POLYCARBONATE 1 WHIT  12 LED DOWN LIGATING 1 REMAINS 1 NO. NAME OF PARTS MATERIAL Q'TY REMARKS NO |  | ACA                   | 2200-2400  | 7, 30,00112          |                    |                                       |                 |      |                 |  |   |   |   |
| 11 BATTERY NICI 4D(4.8V) 1 10 3P CONNECTOR RECEP. & PLIUG SET 3 3 4 DIFFUSER POLYCARBONATE 1 MILE 8 FITTING SUPPORT POLYCARBONATE 3 3 3 ASCIA POLYCARBONATE 1 MILE 8 FITTING SUPPORT POLYCARBONATE 3 4 DIFFUSER POLYCARBONATE 1 MILE 8 FITTING SUPPORT POLYCARBONATE 3 4 DIFFUSER POLYCARBONATE 1 MILE 8 FITTING SUPPORT POLYCARBONATE 3 4 DIFFUSER POLYCARBONATE 1 MILE 8 FITTING SUPPORT POLYCARBONATE 3 4 DIFFUSER POLYCARBONATE 1 MILE 8 FITTING SUPPORT POLYCARBONATE 3 4 DIFFUSER POLYCARBONATE 1 MILE 8 FITTING SUPPORT POLYCARBONATE 3 4 DIFFUSER POLYCARBONATE 1 MILE 8 FITTING SUPPORT POLYCARBONATE 3 4 DIFFUSER POLYCARBONATE 1 MILE 8 FITTING SUPPORT POLYCARBONATE 3 4 DIFFUSER POLYCARBONATE 1 MILE 8 FITTING SUPPORT POLYCARBONATE 3 4 DIFFUSER POLYCARBONATE 1 DIFFUSER POLYCARBONATE 1 MILE 9 DIFFUSER POLYCARBONATE 1 DIFFUSER POL |  |                       | 13W  |                      |                    |                                       |                 |      |                 |  |   | 7 1/4                                   |   |
| 150   SECTION A-A  | 3 19L PLAT HEAD SELF DRILLING SCREW                          |                       |  |                      |                    |                                       |                 |      |                 |  |   |   |   |
| 11 BATTERY NICO 4D(4.8V) 1   |  |                       |  |                      |                    |                                       | 86              | 91   |                 |  |   | 7                                       |   |
| 10   3P CONNECTOR   RECEP. & PLUG SET   3   5   REFLECTOR   POLYCARBONATE   1       9  | SECTION A-A  BATTERY CHARGING LINE (L'-N')  RECEP.  PLUG  11 |                       |  |                      |                    |                                       |                 |      |                 |  |   |   |   |
| 10   3P CONNECTOR   RECEP. & PLUG SET   3   5   REFLECTOR   POLYCARBONATE   1       9  | N 196  | 1                     |  | B. 1                 |                    |                                       | Г               |      |                 |  |   |   |   |
| 9         TERMINAL BLOCK         -         1         3P         4         DIFFUSER         POLYCARBONATE         1         MILK           8         FITTING SUPPORT         POLYCARBONATE         3         FASCIA         POLYCARBONATE         1         WHIT           7         LED driver         -         1         2         BODY         POLYCARBONATE         1         WHIT           6         LED module         -         1         3,000±300K         1         FRONT HEAD         ALUMINIUM<br>DIE CASTING         1         1           NO.         NAME OF PARTS         MATERIAL         Q'TY REMARKS         NO.         NAME OF PARTS         MATERIAL         Q'TY REM           APPROVED         J. KIM         UNIT         MM         TITLE         LED DOWN LIGHT           CHECKED         D. W. CHO         SCALE         N/S         NS         BATTERY BACKUP TYPE           DRAWING         S. H. HAN         COLOR         N-9.3         FOR MARINE USE  |  |                       |  |                      |                    |                                       |                 |      | 5               | REFLECTOR  | POI YCARRONATE                            | 1                                       |   |
| 8 FITTING SUPPORT POLYCARBONATE 3 3 FASCIA POLYCARBONATE 1 WHIT 7 LED driver - 1 2 BODY POLYCARBONATE 1 6 LED module - 1 3,000±300K 1 FRONT HEAD ALUMINIUM DIE CASTING 1 NO. NAME OF PARTS MATERIAL Q'TY REMARKS NO. NAME OF PARTS MATERIAL Q'TY REMAR |  |                       |  |                      | , J JL1            |                                       | 3P              |      |                 | MATERIAL CONTROL CONTR | The second territory of the second second |   | MILKY                                   |
| 6 LED module - 1 3,000±300K 1 FRONT HEAD ALUMINIUM DIE CASTING 1  NO. NAME OF PARTS MATERIAL Q'TY REMARKS NO. NAME OF PARTS MATERIAL Q'TY REMARKS APPROVED J. KIM UNIT MM  CHECKED D. W. CHO SCALE N/S  DRAWING S. H. HAN COLOR N-9.3  DATE 2020.03.24 IP 20   | -  |                       |  |                      | IATE               |                                       |                 |      |                 |  |   |   |   |
| NO. NAME OF PARTS MATERIAL Q'TY REMARKS NO. NA | 8  | LED driv              | /er  | -                    |                    | 1                                     |                 |      | 2               | BODY   |   | 1                                       | WHITE                                   |
| APPROVED J. KIM UNIT MM  CHECKED D. W. CHO SCALE N/S  DRAWING S. H. HAN COLOR N-9.3  DATE 2020.03.24 IP 20  TITLE  LED DOWN LIGHT  BATTERY BACKUP TYPE  FOR MARINE USE   | _  |                       | dule   | -                    |                    | 75.55                                 | -               |      | 1               | -  | DIE CASTING                               | 2015                                    | WHITE                                   |
| CHECKED D. W. CHO SCALE N/S  DRAWING S. H. HAN COLOR N-9.3  DATE 2020.03.24 IP 20  LED DOWN LIGHT BATTERY BACKUP TYPE FOR MARINE USE   | 7  |                       | Secretary and the secretary an |                      |                    | O'TY                                  | REM             |      |                 | NAME OF PARTS  | MATERIAL                                  | Q'TY                                    | 2007 (04/2004) 73 (94/2004)             |
| DRAWING S. H. HAN COLOR N-9.3  DATE 2020.03.24 IP 20  BATTERY BACKUP TYPE FOR MARINE USE   | 7<br>6<br>NO.  | NAME                  |  |                      |                    | ۷.,                                   | - 1             |      |                 |  |   | 300° 300°000000000000000000000000000000 |   |
| DATE 2020.03.24 IP 20 FOR MARINE USE   | 7<br>6<br>NO.  | NAME                  |  | UNIT                 |                    | ۲۰۰                                   |                 | IIIL | .=              | I ED E   |   | _                                       | 300 Stationari Silva                    |
| DATE 2020.03.24 IP 20  | 7<br>6<br>NO.  | NAME                  | J. KIM   | UNIT                 | ММ                 | Q                                     |                 | 1111 | .E              |  |   |   | 300° 300°000000000000000000000000000000 |
| MODEL NO LECO115NFL-P20613WPEBtC30 WEIGHT 1  | 7<br>6<br>NO.<br>APPI  | NAME<br>ROVED<br>CKED | J. KIM   | UNIT<br>O SCALE      | MM<br>N/S          | , , , , , , , , , , , , , , , , , , , |                 | 1111 | .E              | BATTERY  | BACKUP T                                  |   | 300 Stationari Silva                    |
| DAEYANG    MODEL NO.   LECO115NFL-P20613WPEBTC30   WEIGHT   1.0  | 7<br>6<br>NO.<br>APPI<br>CHE                                 | NAME<br>ROVED<br>CKED | J. KIM D. W. CHO S. H. HAN   | UNIT O SCALE I COLOR | MM<br>N/S<br>N-9.3 |                                       |                 |      |                 | BATTERY<br>FOR   | BACKUP TO<br>MARINE USE                   | YPE                                     | REMARK                                  |

## 1) OPERATION / 작동

When AC power fails, the Emergency Ballast immediately switches to the discharging mode, operating one lamp at a reduced lumen output for a minimum of 3 hours. When AC power is restored, the Emergency Ballast automatically returns to the charging mode.

·Charging time: minimum 20hr

·Discharging time: 3hr

AC 전원이 공급되지 않을 때, 비상 안정기는 즉시 방전 모드로 전환됩니다.

한 개의 램프가 최소 3시간 동안 감소된 광속 출력으로 작동하며

AC 전원이 다시 공급되면, 비상 안정기는 자동적으로 충전 모드로 전환됩니다.

·충전시간 : 최소 20시간

·방전시간: 3시간

## 2) INDICATOR LAMP COLOR STATUS / 상태 표시 램프 색상

The indicator shows the degree of battery charging and discharging. 표시기는 배터리 충전 및 방전 상태를 보여줍니다.

|  |    | LED    | MODE                   |  |  |
|--|----|--------|------------------------|--|--|
|  | NO | GREEN  | MODE                   |  |  |
|  | 1  | Steady | Charging/Fully charged |  |  |
|  | 2  | OFF    | Emergency Mode         |  |  |

| 순번 | 표시램프 | - Lai-    |  |
|----|------|-----------|--|
| 군인 | 녹색   | 표시램프      |  |
| 1  | 점등   | 충전중/완전 충전 |  |
| 2  | 꺼짐   | 비상 상태     |  |

## 3) DIRECTIONS FOR THE USE / 설치 시 주의사항

Wiring should be implemented strictly following manufacturer's drawing; any damage caused by improper wiring is not covered by warranty policy. Test of emergency condition, such as battery discharging time test, should be executed when the battery is fully charged.

The battery connector must be disconnected from battery during construction & test period of vessel, where frequent cut-off of the power source could be happened. And, Please connect a separate battery connector just before the sea-trial or when normal operation only.

Otherwise, the performance and life span of the battery will be significantly deteriorated.

결선은 공급자의 도면에 따라서 엄격하게 시행되어야 하며,

부적절한 결선으로 야기된 위험은 보증 정책이 적용되지 않습니다.

배터리 방전시간 시험과 같은 비상상태에서의 시험은 배터리가 완전 충전되었을 때 실행해야 합니다.

배터리는 커넥터는 전원이 자주 차단되는 선박의 공사 & 시험기간 동안에는 배터리로 부터 분리해야 합니다.

그리고, 분리된 배터리 커넥터는 시운전 직전 또는 정상 사용 시에 연결하십시요. 그렇지 않을 경우, 배터리의 성능과 수명은 현격하게 저하 됩니다.

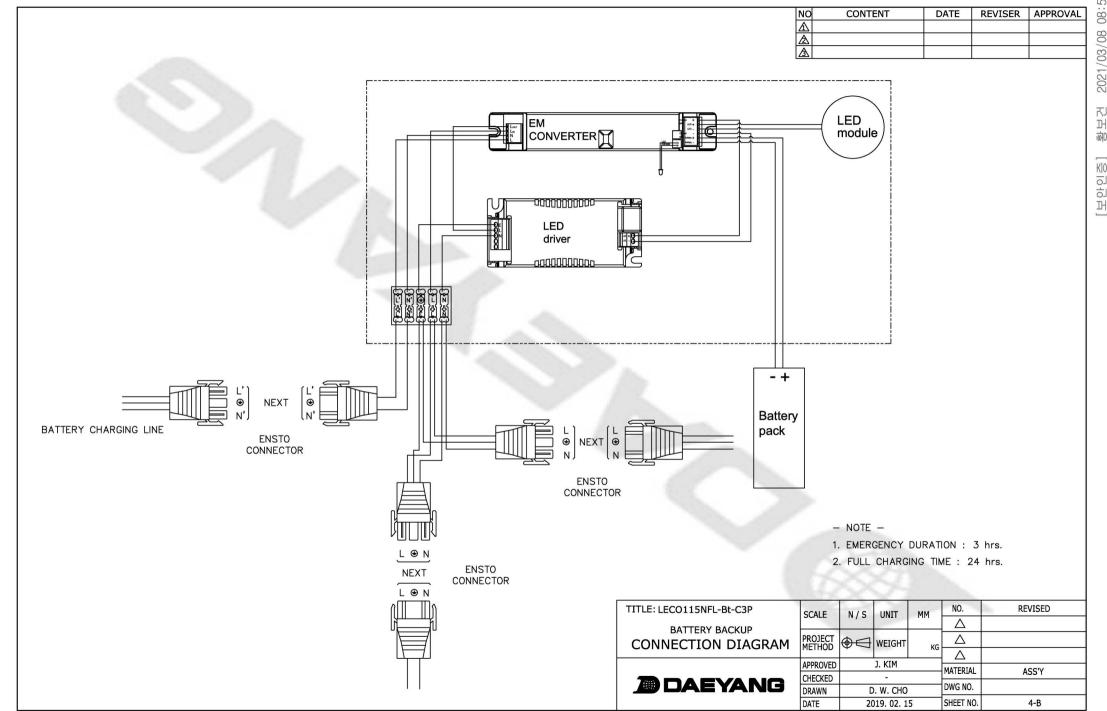
| APPROVED | J. KIM     | UNIT  | мм  |  |  |  |  |  |
|----------|------------|-------|-----|--|--|--|--|--|
| CHECKED  | D. W. CHO  | SCALE | N/S |  |  |  |  |  |
| DRAWING  | S. H. HAN  | COLOR | -   |  |  |  |  |  |
| DATE     | 2017.07.11 | IP    | -   |  |  |  |  |  |

TITLE;

## BATTERY BACKUP Information Sheet (LECO115NFH/L)



SHEET NO. 4-A



100