

# LIFT SAFETY SYSTEMS

ARD (MRL model)



## APPLICABLE FIELD

Designed to back up power to the existing VVVF-controlled lift system of customers to bring the lift to the nearest floor and open the lift door during mains power failure.

## PRODUCT FEATURES

- Enhance passenger safety
- Powered by sealed lead acid maintenance free battery
- Reliable microprocessor control
- Quasi-sine technology
- Window software for remote monitoring
- Easy and time-efficient installation and maintenance
- Temperature compensation



# LIFT SAFETY SYSTEMS

## ARD (MRL model)



Marstech MRL ARD1560 can supply back up power to any kind of existing VVVF-controlled lift system. MRL ARD1560 can be easily installed; it is powered by sealed lead acid maintenance free batteries.

| Model  | 1560-2L-XJP              | 1560-3L-XJP              |
|--|--------------------------|--------------------------|
| Nominal Battery / Input Voltage              | DC 48V                   | DC 48V                   |
| Nominal Battery Current                      | DC 5 - 40A               | DC 5 - 40A               |
| Battery Capacity                             | 12V 90W                  | 12V 90W                  |
| Output                                       | 3 phase 4 wires          | 3 phase 4 wires          |
| Output Power                                 | < 2000VA                 | < 3000VA                 |
| Output Voltage                               | 415Vac±5%                | 415Vac±5%                |
| Output Frequency                             | 50Hz±1%                  | 50Hz±1%                  |
| Output Voltage Waveform                      | Qusi-Sinusoidal Waveform | Qusi-Sinusoidal Waveform |
| Output Motor Power                           | 15KW as below            | 25KW as below            |
| Recommended Motor Speed                      | <5Hz                     | <5Hz                     |
| <b>Battery Charger</b>                       |                          |                          |
| Input Voltage                                | 240Vac±5% (50Hz±1%)      |                          |
| Charging Current                             | 3.0A Max                 |                          |
| Boost Voltage                                | 57.60V Max               |                          |
| Nominal Floating Voltage                     | 53.60V                   |                          |
| Temperature Compensation                     | -75mV/°C                 |                          |
| <b>Safety Alarm</b>                          |                          |                          |
| Battery Voltage Low                          | 42.40V                   |                          |
| Over-Heat of Inverter                        | >65°C temperature rise   |                          |
| Over-load                                    | >120% Rated Output Power |                          |
| Time Delay for Detecting Mains Power Failure | 0 - 60 Seconds           |                          |
| Self-test and Take-over Time                 | 10 Seconds               |                          |
| Starting Time for Output Power Limit         | 2 Seconds                |                          |
| Emergency Mode Time-out                      | 4.0 Mins                 |                          |
| Dimension (L x W x H) mm                     | 430 x 230 x 900          | 430 x 230 x 900          |
| Weight (kg)                                  | Approx. 47 w/o battery   | Approx. 50 w/o battery   |
| IEC Standard                                 | IEC 62040-1              | IEC 62040-1              |
| EMC Standard                                 | EN12015,EN12016          | EN12015,EN12016          |