

|                                    | LIFT UPS SPECIFICATIONS |   |       |      |      | ARD SPECIFICATIONS   |       |      |      |
|------------------------------------|-------------------------|---|-------|------|------|--|-------|------|------|
| Parameters                         | Units                   | Rating  |       |      |      | Rating   |       |      |      |
| Model                              | iLIFT                   | 5HP   | 7.5HP | 10HP | 15HP | 5HP  | 7.5HP | 10HP | 15HP |
| Operating DC Voltage               | V                       | 48V   | 48V   | 48V  | 48V  | 48V  | 48V   | 48V  | 96V  |
| <b>PWM BASED CHARGE CONTROLLER</b> |                         |   |       |      |      |  |       |      |      |
| SWITCHING ELEMENT                  |                         | MOSFET  |       |      |      | MOSFET   |       |      |      |
| CONTROLLER                         |                         | DSP   |       |      |      | DSP  |       |      |      |
| TYPE OF CHARGER                    |                         | PFC   |       |      |      | PFC  |       |      |      |
| EFFICIENCY                         |                         | 95%   |       |      |      | 95%  |       |      |      |
| Battery Charging Stages            |                         | 4   |       |      |      | 4  |       |      |      |
| <b>Battery</b>                     |                         |   |       |      |      |  |       |      |      |
| Low cut off                        | V                       | 10/Batt +/-0.1  |       |      |      | 11/Batt +/-0.1   |       |      |      |
| Low cut off recovery               | v                       | 12/Batt +/-0.1  |       |      |      | 12/Batt +/-0.1   |       |      |      |
| Low Buzzer                         | V                       | 10.2/Batt +/-0.1  |       |      |      | 11.2/Batt +/-0.1   |       |      |      |
| High cut off                       | V                       | 15.5/Batt +/-0.1  |       |      |      | 15.5/Batt +/-0.1   |       |      |      |
| High cut off recovery              | v                       | 15.0/Batt +/-0.1  |       |      |      | 15.0/Batt +/-0.1   |       |      |      |
| Charging current by Grid           | A                       | 1A +/- 0.5  |       |      |      | 1A +/- 0.5   |       |      |      |
| <b>Output</b>                      |                         |   |       |      |      |  |       |      |      |
| Output@ No load                    | V                       | 220 +/-5V   |       |      |      | 440 +/-5V  |       |      |      |
| Output Frequency                   | Hz                      | 50 +/-0.5   |       |      |      | 50 +/-0.5  |       |      |      |
| UPS/ARD BACKUP TIME                | Min                     | 2 MINUTES   |       |      |      | 3 MINUTES  |       |      |      |
| No Load Battery current            | %                       | 2%  |       |      |      | 2%   |       |      |      |
| Overload Test                      | A                       | 3.6Amp/kva  |       |      |      | 3.6Amp/kva   |       |      |      |
| <b>Mains</b>                       |                         |   |       |      |      |  |       |      |      |
| No of Phase                        |                         | 1Phase-2Wire P,N  |       |      |      | 3Phase-4Wire R,Y,B,N   |       |      |      |
| Voltage range                      | V                       | 120-280 +/-3  |       |      |      | 120-280 +/-3   |       |      |      |
| Mains low recovery range           | V                       | 10  |       |      |      | 10   |       |      |      |
| Mains high recovery range          | V                       | 5   |       |      |      | 5  |       |      |      |
| Frequency range                    | Hz                      | 50 +/-3   |       |      |      | 50 +/-3  |       |      |      |
| Battery Charging Stages            |                         | 5   |       |      |      | 5  |       |      |      |
| <b>Inverter</b>                    |                         |   |       |      |      |  |       |      |      |
| Switching Element                  |                         | MOSFET  |       |      |      | MOSFET   |       |      |      |
| Control                            |                         | PWM   |       |      |      | PWM  |       |      |      |
| Output voltage                     | V                       | 220 +/-5  |       |      |      | 220 +/-5   |       |      |      |
| Phase                              |                         | 1Phase-2Wire P,N  |       |      |      | 2Phase-2Wire R,Y   |       |      |      |
| Output Waveform                    |                         | Sine Wave   |       |      |      | Sine Wave  |       |      |      |
| Frequency                          | Hz                      | 50  |       |      |      | 50   |       |      |      |
| Changeover UPS/ARD to Mains        |                         | <10ms   |       |      |      | <10ms  |       |      |      |
| Changeover Mains to UPS/ARD        |                         | <10ms   |       |      |      | =12s   |       |      |      |
| Output Power factor                | Pf                      | 0.8   |       |      |      | 0.8  |       |      |      |
| Overload                           | %                       | 100-120/120-150/150-200/200-300/300-400/More than 400   |       |      |      | 100-120/120-150/150-200/200-300/300-400/More than 400  |       |      |      |
| Overload retry                     |                         | 3   |       |      |      | 3  |       |      |      |
| SWITCH                             |                         | UPS ON/OFF  |       |      |      | ARD ON/OFF   |       |      |      |
| Indication                         |                         | INV ON, BATT LOW/HIGH, OVERLOAD, Mains CHARGING, Mains ON   |       |      |      | INV ON, BATT LOW/HIGH, OVERLOAD, Mains CHARGING, Mains ON  |       |      |      |
| Alarm                              |                         | Batt Low, Overload,Charger ON,INV ON  |       |      |      | Batt Low, Overload,Charger ON,INV ON   |       |      |      |
| Protection                         |                         | Overload,Short Circuit Protection,Over Voltage,Mains Surge and Transient protection (MOV Varistors),Reverse Polarity of Battery,Over temperature Protection,under voltage and over voltage Protection |       |      |      | Overload,Short Circuit Protection,Over Voltage, Mains Surge and Transient protection (MOV Varistors),Reverse Polarity of Battery,Over temperature Protection,under voltage and over voltage Protection |       |      |      |
| Operating Temp                     | C                       | 0-50  |       |      |      | 0-50   |       |      |      |

|                    |    |      |    |    |    |      |    |    |    |
|--------------------|----|------|----|----|----|------|----|----|----|
| Operating Humidity | %  | 95   |    |    |    | 95   |    |    |    |
| Protection class   |    | IP20 |    |    |    | IP20 |    |    |    |
| Weight             | kg | 20   | 30 | 40 | 50 | 20   | 30 | 40 | 50 |