



| Technical Specification for IGBT based 350 Volt , 450 Amp Rectifier |                   |                                   |                                                                                   |
|---------------------------------------------------------------------|-------------------|-----------------------------------|-----------------------------------------------------------------------------------|
| Sr.No                                                               | Parameter         |                                   | Value                                                                             |
|                                                                     | Model             | EP 450A350V RECTIFIER (VP002019)  |                                                                                   |
| 1                                                                   | Input Parameter   | Input Voltage                     | 320-480VAC 50Hz (3 Phase)                                                         |
|                                                                     |                   | Frequency                         | 50Hz                                                                              |
| 2                                                                   | Output Parameter  | Output Voltage                    | 350VDC (+/- 1%)                                                                   |
|                                                                     |                   | Output Current                    | 450 Amp                                                                           |
|                                                                     |                   | Voltage Adj. Range                | 0 to 350 VDC                                                                      |
|                                                                     |                   | Current Range                     | 0 to 450 Amp                                                                      |
|                                                                     |                   | Rated Power                       | 1,57,500 W (157.5 KW)                                                             |
|                                                                     |                   | Power Factor                      | 0.9 - 0.95                                                                        |
| 3                                                                   | Configuration     | IGBT Base H-Bridge PWM Technology |                                                                                   |
| 4                                                                   | Features          | Control & Display Card            | DSP(Digital Signal Processing) Controller for Fast Performance & Protection       |
|                                                                     |                   | Current & Voltage Sensing         | Hall Effect Sensor to Isolate Control & Display Card from High Voltage & Current. |
|                                                                     |                   | Cooling                           | Forced Air Cooling                                                                |
| 5                                                                   | Remote Controller | Display                           | LCD Display 4 Line 20 Character                                                   |
|                                                                     |                   |                                   | 7- Segment 4 digit Display for Output Current & Voltage                           |
|                                                                     |                   |                                   | Constant Current & Constant Voltage                                               |
|                                                                     |                   |                                   | All Errors (Protection)                                                           |
| 6                                                                   | Communication     | PLC                               | 0-5V Analog                                                                       |
|                                                                     |                   | For Scada                         | RS 485                                                                            |
| 7                                                                   | Protection        | Overload                          |                                                                                   |
|                                                                     |                   | Over Voltage                      |                                                                                   |
|                                                                     |                   | High-Low Input cut off            |                                                                                   |
|                                                                     |                   | Phase Failure Detector            |                                                                                   |
|                                                                     |                   | Over temperature                  |                                                                                   |
|                                                                     |                   | Short Circuit Protection          |                                                                                   |
| 8                                                                   | Environment       | Working Temp.                     | 0 to 40° C                                                                        |
|                                                                     |                   | Humidity                          | 20 to 90 %                                                                        |
|                                                                     |                   | Storage Temp./Humidity            | (-10 to 70°C)                                                                     |
| 9                                                                   | Form Factor       | Material Of Construction          | GI Sheet with Powder Coating & Epoxy Clear Coating                                |
|                                                                     |                   | Physical Body                     | Compact & Light Weight                                                            |
|                                                                     |                   | Dimensions (W x H x L)            | 720 x 1070 x 760<br>695 x 1045 x 470                                              |
|                                                                     |                   | Weight                            | 540 KG (Approx.)                                                                  |
|                                                                     |                   | Warranty                          | 1 Year                                                                            |