

Troubleshooting Tips

When SMPS Power Plant does not function properly, please check the following Troubleshooting Table before returning a unit. If the product still has a problem, please contact our Customer Service desk.
This Troubleshooting Table is applicable for FCBC/ SMPS Power Plants with Model Nos. DY 1350, DY 2350, DY 2350B, DY4350, DY6350, DY 2700 and DY4700 only.

Different Fault Indications provided by LED's on Front Panel of System:

Fault Indications	Fault Description	Corrective Action
Battery Reverse LED ON	This LED lights ON, When Battery is connected with reverse polarity to the supply.	Connect +ve terminal of Battery to +ve Output & -ve terminal of Battery to -ve Output.
Battery Low LED ON	This LED lights ON, when Voltage at the battery terminals has dropped to 43V +/- 0.5 V due to system overload or Battery is disconnected due to LVD (Low Voltage disconnect) operation.	Connect another charged Battery. *If Battery Voltage is > 45V and still LED is ON then check LVD CARD & LVD Relay mounted inside the system.
AC Fail LED ON	This LED lights ON, when Input AC supply has failed completely or dropped below 150V AC.	Will be disabled when AC Supply resumes back. *If AC supply is available on the Input AC terminal and still LED is ON then check AC supply at each Input connector of each Module.
Module Fail LED ON	This LED lights ON, when One or more Rectifier Module output has dropped to zero due to internal malfunction or any of the Module MCB is off.	Check if the Module switch / MCB is OFF, If Module is Faulty then Replace the Faulty Module.
AC ON/ Battery Discharge LED ON	LED lights ON when Battery supplies the Load current although AC input is available. or AC Input to all Modules gets disconnected due to HVD (High Voltage Disconnect) operation when AC increases above 280V (+/-10V).	To disable the error, check & keep Module Voltage more than Battery Voltage with the help of Voltage Variation Pot. Or reduce the current at Load or check HVD card.
Audio Alarm Buzzer	Alarm Buzzer rings when Load or Battery (or both) MCB'S are turned OFF.	A Switch on the control panel is provided to disable the buzzer.

Different Fault Indications provided by LED's on Front Panel of Rectifier Modules:

Fault Indications	Fault Description	Corrective Action
AC ON LED ON	LED Lights ON When AC is Available. If AC is available and the LED is OFF then it indicates Fault condition.	If LED is OFF, Check AC supply at the Input connector of the Rectifier Module. Check Input Fuse of the Module. (Replace with suitable rating) Check ON / OFF Switch on the Module.
DC ON LED ON	Lights ON when Rectifier Module is functioning OK. If this LED is OFF then indicates a fault condition.	If DC ON LED is OFF and AC ON LED is ON then unplug the Output 9 pin connector and check Voltage at + & - terminals marked on the Rectifier Module. If Voltage is zero then replace the Module.

Protection Features:

High Voltage Disconnect (HVD)	HVD Circuit protects from excessive Input AC Voltage > 280V and recovers when AC Drops below 275V.	If HVD does not disconnect the AC supply then replace HVD card mounted at rear side.
Battery Low Voltage Disconnect (LVD)	LVD circuit protects Battery from discharging below 43V.	If Battery is discharged below 43V and system is not disconnected then Replace LVD card mounted on rear side.