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 21400EL, DY 41400EL only.

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

Fault Indications	Fault Description	Corrective Action
System Overload LED ON	LED Lights ON when Battery & Load current exceeds set ORLD limit.	To disable the fault indication reduce either Battery Charging current limit or Load Current.
DC LOW Alarm LED ON	LED Lights ON when output is over Load	Set output Load within rated current limit.
DC HIGH Alarm LED ON	LED Lights ON when the DC output voltage exceeds 28V DC	Will be disabled when output voltage drops below 28V. If does not drop then check each Module Voltage by removing o/p connector
AC out of Range LED ON	LED Lights ON when Input AC Voltage goes out of nominal range of 150V-280VAC. Then system shuts down	System will resume back when voltage comes within nominal range. *If measured Voltage comes to be zero, either mains is failed or MCB is tripped, then Switch ON AC MCB.
AC ON/ Battery Discharge LED ON	LED Lights ON when Battery supplies the load current even if AC input is present. or AC Input to all modules gets disconnected due to HVD (High Voltage Disconnect) operation when AC increases above 280V (+/-10V).	To disable 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.
Module Fail LED ON	When One or more Rectifier Module Output drops to zero (due to internal malfunction) * This alarm may get generated if any module switch is in OFF condition.	Replace the faulty module (or check if Module switch is Off)

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

Fault Indications	Fault Description	Corrective Action
AC ON LED ON	Lights ON when AC is Available. If AC is available and the LED is OFF then indicates Fault condition.	If LED is OFF Check AC supply at the Input connector of the 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 Module is functioning OK. If this LED is OFF then indicates fault condition	If this 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.
Over Volt LED ON	Lights ON when Rectifier Module Output Voltage exceeds rated Voltage.	Switch OFF the AC Mains & Switch it On after 2 min. If fault is still present, replace the module.
Over Temp LED ON	Lights ON when Module Temperature exceeds 90°	Check the Temperature in the ambient of the Module and look for free air flow. When the module Temperature is in the normal range, the supply should start automatically.

Protection Features:

High Voltage Disconnect (HVD)	HVD Circuit protects from excessive input AC voltage>280V and recovers when AC 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 21V.	When battery discharged below 21V and system is not disconnected then Replace LVD card mounted on rear side.