

Symmetra MW Alarm Messages

As of Firmware revision 25.20

Alarm Levels

Info: Informational Alarm. No immediate action required. Check the cause of the alarm at next maintenance visit.

Warning: The UPS system may have gone into bypass. The load remains supported, but action must be taken. Call Technical Support. The area on the right side of the top screen alternates between blue and red.

Severe: Take immediate action. Call Technical Support. The red area of the top of the screen alternates between blue and red.

Display Message	Alarm Severity 1=Info 2=Warning 3=Severe	Notes
Battery temperature is no longer high	1	
Battery temperature is high - UPS shutdown started	3	
Battery current is no longer high	1	
Battery current is high - UPS shutdown started	3	
Battery current is no longer over limit	1	
Battery current is over limit	2	
Battery voltage OK	1	
Battery voltage high	2	
Battery cubicle fuse blown	3	This will also report if battery breaker is open
Battery Breaker Open	3	The UPS will not be able to operate in battery operation
Discharging Batteries	2	
Battery Capacity Test Running	1	Battery capacity test being performed.
Battery Capacity Test Completed	1	UPS completed the battery capacity test. Eventlog will show the new back up time.
Battery Low Voltage Warning	1	
Battery Low Voltage Shut Down	3	
Ground Fault detected	2	
Bypass SSW backfeed protection contactor fault	3	
Bypass SSW temperature fault	3	
Input Contactor Fault	3	
Output Contactor Fault	3	

Display Message	Alarm Severity 1=Info 2=Warning 3=Severe	Notes
System rating kVA configuration fault	2	
System staying in bypass due to overload	2	
Bypass rating load over limit	3	
System rating load in over limit	2	
Neutral bonding choke fault	3	
Bonding choke temperature high	3	
Mains static switch fan lifetime near end	1	Life Cycle Monitor, it is a calendar timer not a fan fault.
Mains static switch fan lifetime exceeded	2	Life Cycle Monitor, it is a calendar timer not a fan fault.
Inverter fan lifetime near end	1	Life Cycle Monitor, it is a calendar timer not a fan fault.
Inverter fan lifetime exceeded	2	Life Cycle Monitor, it is a calendar timer not a fan fault.
Top fan lifetime near end	1	Life Cycle Monitor, it is a calendar timer not a fan fault.
Top fan lifetime exceeded	2	Life Cycle Monitor, it is a calendar timer not a fan fault.
Power Module fan OK	1	
Power Module fan fault	2	Actual fan fault. Power Module fans are redundant.
Mains static switch fan OK	1	
Mains static switch fan fault	2	Actual fan fault. SSW fans are redundant.
Top fan module OK	1	
Top fan module fault	2	
Section no longer in hot standby	1	
Section in hot standby	1	
Breaker Q1 closed	1	
Breaker Q1 open	2	
Breaker Q2 closed	1	
Breaker Q2 open	2	
Breaker Q3 closed	1	
Breaker Q3 open	2	
Breaker Q4 closed	1	
Breaker Q4 open	2	
Breaker Q5 closed	1	
Breaker Q5 open	2	

Display Message	Alarm Severity 1=Info 2=Warning 3=Severe	Notes
Breaker Q6 closed	1	
Breaker Q6 open	2	
Bypass input frequency fault	2	
Bypass fast error detected	2	
Bypass mains ok	1	
Bypass operation mode active	1	
Bypass operation mode fault	3	
Bypass operation mode - Manual Bypass/Forced	2	
Bypass operation mode - Requested On	1	
Bypass transformer temperature fault	3	
EMO / EPO activated	3	
Event Log cleared	1	
Initialization completed after power up	1	
Input fast error detected	2	
Input voltage - low voltage	2	
Input frequency fault	2	
Input transformer temperature fault	3	
Input section fuse blown	3	
Load is connected	1	
Load is disconnected	3	
Main Controller SELV power supply fault	2	
Main Controller to display comm fault	2	
Master Changed	1	
Master Present	1	
No Master present	3	
Number of UPSes config fault	3	System Configuration setting number of Parallel UPS is set incorrectly.
Number of parallel UPS error	3	Error in the stated number of UPSes in the parallel system
Normal and battery operation	2	The units are in different modes of operation
Off Button Pushed	2	

Display Message	Alarm Severity 1=Info 2=Warning 3=Severe	Notes
On Button Pushed	1	
Output fast error detected	3	
Output fuse blown	3	
Output transformer temp high	3	
Output Off	3	
Output On	1	
Output section fuse blwon	3	
Overload on UPS	2	
Parallel CAN comm. Error - cable 1	2	Parallel communication lost on cable 1
Parallel CAN comm. Error - cable 1 & 2	3	Parallel communication lost on both cables. This can result in transfer to bypass.
Parallel CAN comm. Error - cable 2	2	Parallel communication lost on cable 2
Phase sequence error	3	
Power Module choke temp switch fault	2	
Power Module communication fault	2	
Power Module controller comm error	3	
Power Module section fault	3	
Relay board CAN IO fault	2	
Requested Bypass	1	User initiated transfer to bypass.
Section disabled	3	One of the power module sections is disabled
Section locked by section manager	3	
Switchgear Communication Fault	2	

Relay inputs are not faults with the UPS. They are external events reported to or through the UPS. These events can influence UPS operation.

Relay Input: Generator Active		Relay Board 1 Input 1 Input for indicating that a generator is active. This will be used to reduce the charge power. This also activates the use of online delay.
Relay input: Battery Room Ventilation Fault		Relay Board 1 Input 2 Input for indicating that the ventilation in battery rooms is defect. This will be used to reduce the charge power.
Relay input: DC Ground fault detection		Relay Board 1 Input 3
Relay input: Plant clock synchronization		Relay Board 1 Input 5
Relay input: Power tie detection		Relay Board 1 Input 6 Input from PLC to detect if power tie is active.
Relay input: forced battery operation on		Relay Board 1 Input 7 This input will force the unit to battery operation when activated in normal operation and report it in the event log.
Relay input: Lock Requested Bypass		Relay Board 1 Input 8 When the system is in bypass it will get locked in bypass
Relay input: Remove charge derating on generator		Relay Board 2 Input 1 Input for deactivate charge derating when on generator (Relay input 1 board 1). Will activate derating when load is over 90% and deactivate under 80% load.
Relay input: HRG detected ground fault		Relay Board 2 Input 2 Input report an info alarm and activate the detection for an input short to ground
Relay input: Minor battery fault		Relay Board 2 Input 3 Input from Lithium battery to report a minor alarm. If a minor alarm is reported, the UPS increases the low shut down voltage limit by 10Vdc to avoid tripping the battery breaker in the Samsung LIB battery cabinet due to battery cell under voltage.
Relay input: Major battery fault		Relay Board 2 Input 4 Input from Lithium battery to report a major fault. When activated the charge current level is reduced to the charging current of a single string ($0.7 \cdot 67\text{Ah} = 46\text{A}$).
Relay input: Stop charging		Relay Board 2 Input 5 Charger stop input from Samsung LIB: When Relay board 2, input 5 is active, if a minor alarm is also active, the charge current will be reduced to 0A and the float voltage will be reduced to avoid tripping the battery breaker in the Samsung LIB battery cabinet due to over voltage.

Relay input: Activate smooth regulation		Relay Board 2 Input 6 **requires fw rev. 25.21** This function makes the sign-wave smooth when the DC is low. Function is activated under DC warning for 5 seconds or when mains return, and DC is below 350VDC. It will stay active until DC is over 350VDC for 5 seconds or after 60 second in normal operation.
Relay input: Disable Lithium temperature and current limit detection		Relay Board 2 Input 7 Function to disable estimated temperature limit and estimated current limit – (limits only used for Samsung Li-ion solution)
Relay input: HRG input ground detection always active		Relay Board 2 Input 8 Disable the need for relay 2 and make the detection active all time.