XCP Alarm Number	Map Byte #	Bit #	Alarm / Notice / Status	Alarm Description	Detailed Definition	SNMP Well-Known Alarm Tag	Developer Notes
0	1	0	ALM	Inverter AC Over Voltage	Inverter fault: measured inverter output voltage has exceeded the upper voltage limit specification for normal operation	WKA_INV	
1	1	1	ALM	Inverter AC Under Voltage	Inverter fault: measured inverter output voltage is less than the lower voltage limit specification for normal operation	WKA_INV	
2	1	2	ALM	Inverter Under Or Over Frequency	Inverter fault: measured inverter output frequency is outside of either the upper or lower frequency limit specification for normal operation	WKA_INV	
3	1	3	ALM	Bypass AC Over Voltage	Bypass fault: measured bypass input voltage has exceeded the upper voltage limit specification for normal operation	WKA_BNA	To be used only on those UPSs that have a separate bypass input.
4	1	4	ALM	Bypass AC Under Voltage	Bypass fault: measured bypass input voltage is less than the lower voltage limit specification for normal operation	WKA_BNA	To be used only on those UPSs that have a separate bypass input.
5	1	5	ALM	Bypass Under Or Over Frequency	Bypass fault: measured bypass input frequency is outside of either the upper or lower frequency limit specification for normal operation	WKA_BNA	To be used only on those UPSs that have a separate bypass input.
6	1	6	ALM	Input AC Over Voltage	Input (Utility) fault: measured input voltage has exceeded the upper voltage limit specification for normal operation	WKA_INF	
7	1	8	ALM	Input AC Under Voltage	Input (Utility) fault: measured input voltage is less than the lower voltage limit specification for normal operation	WKA_INF	
8	2	0	ALM	Input Under Or Over Frequency	Input (Utility) fault: measured input frequency is outside of either the upper or lower frequency limit specification for normal operation	WKA_INF	
9	2	1	ALM	Output AC Over Voltage	Output fault: measured output voltage has exceeded the upper voltage limit specification for normal operation	WKA_OBD	
10	2	2	ALM	Output AC Under Voltage	Output fault: measured output voltage is less than the lower voltage limit specification for normal operation	WKA_OBD	
11	2	3	ALM	Output Under Or Over Frequency	Output fault: measured output frequency is outside of either the upper or lower frequency limit specification for normal operation	WKA_OBD	
12	2	4	ALM	Remote Emergency Power Off	The UPS has shutdown due to the activation of the remote EPO signal.	WKA_OFF	
13	2	5	ALM	Remote Go To Bypass	The Remote go to bypass input to the unit is active. The UPS will remain on bypass until this signal is de-activeated.	WKA_OBP	
14	2	6	ALM	Building Alarm 6	A dry contact closure has been detected on the building alarm 6 input. The building alarms are a set of inputs that are activated via dry contacts. The user may use them for any purpose.	WKA_BDA	
15	2	7	ALM	Building Alarm 5	A dry contact closure has been detected on the building alarm 5 input.	WKA_BDA	
16	3	0	ALM	Building Alarm 4	A dry contact closure has been detected on the building alarm 4 input.	WKA_BDA	
17	3	1	ALM	Building Alarm 3	A dry contact closure has been detected on the building alarm 3 input.	WKA_BDA	
18	3	2	ALM	Building Alarm 2	A dry contact closure has been detected on the building alarm 2 input.	WKA_BDA	
19	3	3	ALM	Building Alarm 1	A dry contact closure has been detected on the building alarm 1 input.	WKA_BDA	
20	3	4	ALM	Static Switch Over Temperature	Static Switch fault: The static switch operating temperature has been exceeded.	WKA_TMP	
21	3	5	ALM	Charger Over Temperature	Charger fault: The battery charger operating temperature has been exceeded.	WKA_TMP	

22	3	6	ALM	Charger Tripped	The Charger automatically tripped off due to an alarm condition.	WKA_RCT	
23	3	7	ALM	Charger Over Voltage Or Current	Charger fault: The battery charger output is operating beyond either its voltage limit or its current limit.	WKA_RCT	
24	4	0	ALM	Inverter Over Temperature	Inverter fault: measured inverter temperature exceeds the upper temperature limit specification for normal operation	WKA_TMP	
25	4	1	ALM	Output Overload	Output fault: The measured UPS output current limit or calculated or measured power limit has been exceeded for the longer than allowed by the internal time limit.	WKA_OOL	
26	4	2	ALM	Rectifier Input Over Current	Rectifier fault: The measured rectifier input current exceeds the upper current limit specification for normal operation.	WKA_FAL	
27	4	3	ALM	Inverter Output Over Current	Inverter fault: The measured inverter output current exceeds the upper current limit specification for normal operation.	WKA_OOL	
28	4	4	ALM	DC Link Over Voltage	DC Link fault: measured DC link voltage has exceeded the upper voltage limit specification for normal operation	WKA_FAL	
29	4	5	ALM	DC Link Under Voltage	DC Link fault: measured DC link voltage is less than the lower voltage limit specification for normal operation	WKA_FAL	
30	4	6	ALM	Check Rectifier	Rectifier fault: The rectifier appears to have failed	WKA_RCT	
31	4	7	ALM	Check Inverter	Inverter fault: The inverter appears to have failed.	WKA_INV	
32	5	0	ALM	Check Battery Switchgear	Battery fault: The battery contactor or relay appears to have failed.	WKA_SWB	
33	5	1	ALM	Check Bypass Switchgear	Bypass fault: The bypass breaker or relay appears to have failed.	WKA_SWB	
34	5	2	ALM	Check Charger	Charger fault: The battery charger appears to have failed.	WKA_RCT	
35	5	3	ALM	Ramp Up Failed	Inverter fault: The inverter failed to ramp up its output to its normally operating point when so commanded.	WKA_INV	
36	5	4	ALM	Check Static Switch	Static switch fault: The static switch appears to have failed.	WKA_SWB	
37	5	5	ALM	Analog Board A/D Reference Fail	This indicates that the analog voltage reference for an A/D converter is out of tolerance.	WKA_FAL	
38	5	6	ALM	Bypass Uncalibrated	This is a warning that the bypass input voltage sensor has not been calibrated.	WKA_NTC	
39	5	7	NTC	Input Uncalibrated	This is a warning that the rectifier/utility input voltage sensor has not been calibrated.	WKA_NTC	
40	6	0	NTC	Output Uncalibrated	This is a warning that the system/critical output voltage sensor has not been calibrated.	WKA_NTC	
41	6	1	NTC	Inverter Uncalibrated	This is a warning that the inverter output voltage sensor has not been calibrated.	WKA_NTC	
42	6	2	NTC	DC Voltage Uncalibrated	This is a warning that the DC link voltage sensor has not been calibrated.	WKA_NTC	
43	6	3	NTC	Output Current Uncalibrated	This is a warning that the system/critical output current sensor has not been calibrated.	WKA_NTC	
44	6	4	NTC	Rectifier Current Uncalibrated	This is a warning that the rectifier/utility input current sensor has not been calibrated.	WKA_NTC	
45	6	5	NTC	Battery Current Uncalibrated	This is a warning that the battery current sensor has not been calibrated.	WKA_NTC	
46	6	6	ALM	Inverter On/Off Stat Failure	Indicates that the inverter has failed to perform the requested function. If it was asked to turn On, it did not. If it was asked to turn Off, it did not.	WKA_INV	
47	6	7	ALM	Battery Current Limit	Indicates that the battery is operating at maximum current capability.	WKA_FAL	
48	7	0	ALM	Inverter Startup Failure	An attempt to start the Inverter module failed.	WKA_INV	
49	7	1	ALM	Check Analog Input Processor	This indicates a failure in the self-test for the analog inputs on a board.	WKA_FAL	

50	7	2	ALM	Output Load Over 100%	Indicates that the system/critical bus is operating at greater than 100% of its current output rating.	WKA_OOL	
51	7	3	ALM	Check Battery Ground	A leakage path appears to exist between a battery connection and ground.	WKA_FAL	
52	7	4	ALM	Waiting For Charger Sync	Indicates that the phase-lock-loop on a phase-controlled battery charger/rectifier is not in lock.	WKA_AWA	
53	7	5	ALM	Non-Volatile Memory Failure	Indicates that a non-volatile memory device (Flash, EEPROM, or NVRAM) in the UPS control or communications logic has failed.	WKA_TST	
54	7	6	ALM	Analog Processor Failure	This indicates that the analog-to-digital converter has failed, eg, to complete a conversion within the expected time frame.	WKA_FAL	
55	7	7	ALM	Shutdown Imminent	Indicates that the UPS has entered a state where it may abruptly stop operating without further notice, in less than the Low Battery Warning time. However, it may continue to operate indefinitely, even with this alarm being asserted.	WKA_SDI	Differs from Auto S/D Pending (#206): may not be a fault condition, but, eg, a state where the UPS will be shutdown in less than Low Battery Warning Time. Notes: Optional. Asserting it will force monitoring software to do a panic OS shutdown.
56	8	0	ALM	Battery Voltage Low	Indicates that the battery voltage and/or energy is below the predetermined "low battery warning" level.	WKA_LBT	
57	8	1	ALM	Utility Out Of Limits	Indicates that the utility input power is not within predetermined limits. This could be over voltage, under voltage, over or under frequency..	WKA_INF	This alarm is Required (to support Shutdown). Activating this alarm will force monitoring software to do a panic OS shutdown.
58	8	2	ALM	Output Short Circuit	Indicates that the UPS has detected an abnormally low impedance placed on its output.	WKA_OBD	
59	8	3	ALM	Utility Not Present	Indicates that the utility input is not present.	WKA_INF	This differs from alarm #57 in that the detected voltage is (near) zero in this case.
60	8	4	ALM	Full Time Charging	Indicates that the battery charger is constantly on. This usually indicates that the battery was severely discharged or that the battery has failed.	WKA_FAL	
61	8	5	ALM	Fast Bypass Command	Indicates that the "fast bypass" command was issued to the bypass control logic. "Fast bypass" applies to those systems that have a static switch wrapped around the bypass breaker or contactor.	WKA_NOT	
62	8	6	ALM	A/D Error	It has been detected that the A/D converter has performed incorrectly.	WKA_FAL	
63	8	7	ALM	Internal Communication Failure	A non-recoverable error has occurred on an internal device network or node.	WKA_FAL	
64	9	0	ALM	Rectifier Failed Self-Test	The rectifier/charger has failed self-test.	WKA_RCT	
65	9	1	ALM	Rectifier EEPROM Failure	An EEPROM device contained within the rectifier module has been corrupted or failed.	WKA_RCT	
66	9	2	ALM	Rectifier EPROM Failure	The device containing the code for the rectifier module has failed.	WKA_RCT	
67	9	3	ALM	Input Line Voltage Loss	Indicates that the utility input power is not within predetermined limits, specifically that the input voltage is below its minimum normal range.	WKA_INF	This is very similar to alarm numbers 57 and 59 but specifically indicates that the input voltage is out of range.
68	9	4	ALM	Battery Voltage High	Indicates that the battery voltage has exceeded a predetermined limit. Operating with this alarm set will likely cause permanent battery and/or system damage.	WKA_FAL	
69	9	5	ALM	Power Supply Over Temperature	One or more of the control or logic power supplies in the UPS is operating beyond its rated temperature.	WKA_TMP	
70	9	6	ALM	Check Power Supply	One or more of the control or logic power supplies in the UPS appears to have failed.	WKA_FAL	
71	9	7	ALM	Check Logic Power Supply	The primary logic supply in the UPS appears to have failed.	WKA_FAL	
72	10	0	ALM	Check Secondary Power Supply	The secondary logic supply in the UPS appears to have failed.	WKA_FAL	
73	10	1	ALM	Heatsink Over Temperature	Heat sink fault: the heat sink temperature at an unspecified module exceeds the upper temperature limit for normal operation	WKA_TMP	
74	10	2	ALM	Check Heatsink Temperature Sensor	A heatsink temperature sensor at some unspecified location in the UPS appears to have failed.	WKA_FAL	

75	10	3	ALM	Rectifier Current Over 125%	The rectifier/charger input or output current has exceeded 125% of its rating.	WKA_NOT	
76	10	4	ALM	Rectifier Tripped	The rectifier tripped off due to an alarm condition	WKA_RCT	
77	10	5	ALM	Check Rectifier Power Capacitors	A rectifier power capacitor appears to have failed.	WKA_RCT	
78	10	6	ALM	Program Stack Error	The control or communication firmware has detected that the internal program stack has overflowed, underflowed or otherwise been corrupted.	WKA_FAL	
79	10	7	ALM	Inverter Control Board Failed Self-Test	The inverter module has failed either its power up self test or it continuous self test.	WKA_TST	
80	11	0	ALM	Inverter A/D Converter Self-Test Failed	One or more of the A/D converters on the inverter module failed self-test.	WKA_TST	
81	11	1	ALM	RAM Device Self-Test Failure	A RAM memory device has failed self-test.	WKA_TST	
82	11	2	ALM	Nonvolatile Data Checksum Failure	A test of a data-containing Flash, EEPROM, or NVRAM has detected a checksum failure. The device either hasn't been programmed or now contains suspect data.	WKA_TST	
83	11	3	ALM	Program Checksum Failure	A test of the codespace has detected a checksum or CRC error. The device's operating code is therefore suspect and should be replaced or reflashed.	WKA_TST	
84	11	4	ALM	Inverter CPU Self-Test Failed	One or more of the CPUs in the inverter module failed self-test.	WKA_TST	
85	11	5	ALM	Network Not Responding	There have been no packets received from the network or the heartbeat function has detected that the network is not connected.	WKA_LST	This primarily applies to networks external to the UPS, but may apply to an internal UPS network.
86	11	6	ALM	Front Panel Self-Test Failure	The front panel or communications board has failed self-test.	WKA_TST	
87	11	7	ALM	Invalid Module Configuration	A system module or board has an invalid hardware / software configuration.	WKA_TST	
88	12	0	ALM	Alarm Test Failure	A UPS test function for verifying correct operation has failed to generate the expected alarm.	WKA_TST	
89	12	1	ALM	Output DC Over Voltage	A DC output of the UPS has been detected to be greater than the predetermined limit for this voltage.	WKA_FAL	
90	12	2	ALM	Input Phase Rotation Error	The input phases are not in the correct sequence (L1 L2 L3).	WKA_INF	
91	12	3	ALM	Inverter Ramp Up Test Failed	The inverter was commanded to start a ramp-up sequence and it failed to start.	WKA_TST	
92	12	4	ALM	Inverter Off Command	A command has been received to turn the inverter off. This command may come from a local control panel or from a remote source.	WKA_OFR	
93	12	5	STS	Inverter On Command	A command has been received to turn the inverter on. This command may come from a local control panel or from a remote source.	WKA_NOT	
94	12	6	ALM	To Bypass Command	A command has been received to transfer the load from the inverter to bypass. This command may come from a local control panel or from a remote source.	WKA_OBP	
95	12	7	STS	From Bypass Command	A command has been received to transfer the load from bypass to the inverter. This command may come from a local control panel or from a remote source.	WKA_NOT	
96	13	0	STS	Normal Mode Command	A command has been received to begin automatic normal reverse transfer UPS operation. This command may come from a local control panel or from a remote source.	WKA_NOT	
97	13	1	ALM	Emergency Shutdown Command	An Emergency Power Off (EPO) command has been received to shutdown the UPS immediately without delay. This command may come from a local control panel or from a remote source.	WKA_OFR	
98	13	2	NTC	Setup Switch Open	The setup switch has been activated. This indicates that the UPS is currently in setup mode instead of in normal operating mode.	WKA_NTC	This alarm has been used in the past to test the alarm functions of the UPS.

99	13	3	ALM	Inverter AC Over Voltage (Interrupt)	An immediate-mode interrupt has occurred indicating that the inverter output voltage has exceeded a predetermined limit.	WKA_INV	
100	13	4	ALM	Inverter AC Under Voltage (Interrupt)	An immediate-mode interrupt has occurred indicating that the inverter output voltage has dropped below a predetermined limit.	WKA_INV	
101	13	5	ALM	Absolute DCOV/ACOV (Interrupt)	An immediate-mode interrupt has occurred indicating that either the DC link voltage or the UPS AC output voltage has reached a critically high over voltage point.	WKA_FAL	
102	13	6	ALM	Inverter L1 Current Limit	Phase 1 of the UPS output is in current limit.	WKA_OOL	
103	13	7	ALM	Inverter L2 Current Limit	Phase 2 of the UPS output is in current limit.	WKA_OOL	
104	14	0	ALM	Inverter L3 Current Limit	Phase 3 of the UPS output is in current limit.	WKA_OOL	
105	14	1	ALM	Bypass Source Out Of Tolerance	The bypass power source is not available to transfer to. This may be due to: over/under voltage, over/under frequency, out of phase lock.	WKA_BNA	
106	14	2	ALM	Rectifier Switchgear Open	The rectifier/charger input breaker is open.	WKA_BRK	
107	14	3	ALM	Battery Switchgear Open	The battery contactor/breaker is open.	WKA_BRK	
108	14	4	ALM	Inverter Switchgear Open	The inverter output contactor/breaker is open.	WKA_BRK	Opposite sense of #251 Inverter Switchgear Status
109	14	5	STS	Bypass Switchgear Open	The bypass breaker is open.	WKA_NOT	
110	14	6	ALM	Inverter Tripped	The Inverter tripped off due to an alarm condition.	WKA_INV	
111	14	7	ALM	Inverter Over Temperature Trip	The inverter temperature has exceeded it s rating operating temperature.	WKA_TMP	
112	15	0	ALM	DC/DC Converter Tripped	The DC/DC converter tripped off due to an alarm condition.	WKA_FAL	
113	15	1	ALM	Inverter Voltage Feedback Error	The feedback voltage used to regulate the inverter output has been detected to be at an unreasonable value.	WKA_INV	
114	15	2	ALM	DC Under Voltage Timeout	The DC link has been in an undervoltage state for a period long enough to invoke a critical action handler.	WKA_FAL	
115	15	3	ALM	AC Under Voltage Timeout	The AC output has been in an undervoltage state for a period long enough to invoke a critical action handler.	WKA_FAL	
116	15	4	ALM	DCUV While Charger Is Full On	The charger is unable to supply enough energy to raise the DC link above its minimum operating (Under Voltage) level.	WKA_FAL	
117	15	5	ALM	Inverter Voltage Bias Error	The DC component of the inverter output waveform is too high.	WKA_INV	
118	15	6	ALM	Input Phase Rotation	On a multi-phase system, the utililty input phases are out of sequence.	WKA_INF	
119	15	7	ALM	Bypass Phase Rotation	On a multi-phase system, the bypass input phases are out of sequence.	WKA_BNA	
120	16	0	ALM	Check System Interface Board	Primarily for parallel systems, this indicates that the system interface board appears to have failed.	WKA_FAL	
121	16	1	ALM	Check Parallel Board	The board used for paralleling control appears to have failed.	WKA_FAL	
122	16	2	ALM	Loss Of Load Sharing Phase L1	For parallel systems, this indicates that this UPS power module can no longer perform load sharing on phase A.	WKA_LOR	
123	16	3	ALM	Loss Of Load Sharing Phase L2	For parallel systems, this indicates that this UPS power module can no longer perform load sharing on phase B.	WKA_LOR	
124	16	4	ALM	Loss Of Load Sharing Phase L3	For parallel systems, this indicates that this UPS power module can no longer perform load sharing on phase C.	WKA_LOR	
125	16	5	ALM	DC Over Voltage Timeout	The DC link has been in an overvoltage state for a period long enough to invoke a critical action handler.	WKA_FAL	
126	16	6	ALM	Battery Totally Discharged	The battery has been discharged to its maximum discharged state.	WKA_BDC	
127	16	7	ALM	Inverter Phase Bias Error	The phase offset component of the inverter output waveform is out of controllable range.	WKA_INV	

128	17	0	ALM	Inverter Voltage Bias Error	The DC component of the inverter output waveform is too high.	WKA_INV	Duplicate of alarm #117
129	17	1	STS	DC Link Bleed Complete	The DC link bleed-down is complete.	WKA_NOT	
130	17	2	ALM	Large Charger Input Current	Based of the current operating state of the charger, the input current to the charger is unreasonably high.	WKA_NOT	
131	17	3	ALM	Inverter Voltage Too Low For Ramp Level	During inverter ramp up, the inverter output voltage has not stayed within the expected limit band.	WKA_INV	
132	17	4	ALM	System Not Redundant	For an "n+1" parallel system, the load is supported, but the system is no longer has redundant protection.	WKA_LOR	Eg, due to loss of a module. See also #225 Redundancy Loss Due To Overload
133	17	5	ALM	Loss Of Sync Bus	For a parallel system, this module has detected that the sync bus is not active.	WKA_FAL	
134	17	6	ALM	Rectifier Switchgear Shunt Tripped	The rectifier input breaker has been intentionally shunt tripped. This is usually due to an emergency power off command.	WKA_BRK	
135	17	7	ALM	Loss Of Charger Sync	In a phase-controller charger, the charger is not synchronized to its input voltage. This implies that the charger is not working at this time.	WKA_FAL	
136	18	0	ALM	Inverter Low Level Test Timeout	The inverter has failed its low level self test.	WKA_TST	
137	18	1	ALM	Output Switchgear Open	The UPS output breaker or relay is open.	WKA_NOO	
138	18	2	STS	Control Power Status	Control power has been applied. This status is set when the controls first power up. It is used to record the date and time of return of power after a power fail.	WKA_NOT	
139	18	3	STS	Inverter Status	The inverter is on.	WKA_NOT	
140	18	4	STS	Charger Status	The charger is on.	WKA_NOT	
141	18	5	STS	Bypass Status	The bypass is on.	WKA_NOT	
142	18	6	ALM	Bypass Power Loss	The bypass input has insufficient power available to supply the current load.	WKA_BNA	
143	18	7	ALM	Maintenance Bypass Mode	The load is being supplied power by a wrap-around maintenace bypass switch.	WKA_OMB	
144	19	0	STS	Bypass Manual Turn Off	The bypass has been given a manual turn off command.	WKA_NOT	
145	19	1	STS	Inverter Bleeding DC Link Voltage	The inverter is being used to bleed the DC link voltage down to a safe level.	WKA_NOT	
146	19	2	ALM	CPU ISR Error	One of the Central Processing Units (CPU or control microprocessor) has erroneously entered one of its Interrupt Service Routines (ISR), implying that it has received a spurious interrupt input.	WKA_FAL	
147	19	3	NTC	Firmware Restarted	The system has gone through a firmware self-restart (ie, warmboot)	WKA_NTC	
148	19	4	STS	Parallel DC	The DC busses are operating in parallel	WKA_NOT	
149	19	5	ALM	Check Battery	A battery problem has been detected. It may need to be replaced, or its connections and fuses need to be checked.	WKA_BBD	
150	19	6	STS	Battery Charging	The battery is being charged.	WKA_NOT	
151	19	7	NTC	Battery Not Charged	The battery is not fully charged.	WKA_NTC	
152	20	0	STS	Battery Time Calculation Disabled	The battery time remaining calculation and/or reporting has been disabled.	WKA_NOT	
153	20	1	STS	Series 7000 Enable	This is unique to the Series 7000, indicating that is a Series 7000 (Powerware 375 family member).	WKA_NOT	
154	20	2	STS	Other UPS On	In a parallel system, this indicates that one of the other UPSs in currently on.	WKA_NOT	
155	20	3	STS	Parallel Inverter	Two or more inverters are currently operating in parallel.	WKA_NOT	
156	20	4	STS	UPS In Parallel	This UPS is in parallel operation with at least one other UPS.	WKA_NOT	
157	20	5	ALM	Check Output Switchgear	An Output Breaker or Relay appears to have failed; may be stuck either open or closed with this alarm.	WKA_SWB	
158	20	6	STS	Control Power Off	Control power has been removed. This alarm is either set when the controls detect that they have lost or are about to lose power . It is used to record the date and time of a power fail.	WKA_NOT	

159	20	7	ALM	L1 Overload	The load on this UPS output phase (1) exceeds the rated current or power of the UPS. If On Inverter, the UPS may transfer to Bypass or shutdown after a timeout period of some minutes.	WKA_OOL	
160	21	0	ALM	L2 Overload	The load on this UPS output phase (2) exceeds the rated current or power of the UPS. If On Inverter, the UPS may transfer to Bypass or shutdown after a timeout period of some minutes.	WKA_OOL	
161	21	1	ALM	L3 Overload	The load on this UPS output phase (3) exceeds the rated current or power of the UPS. If On Inverter, the UPS may transfer to Bypass or shutdown after a timeout period of some minutes.	WKA_OOL	
162	21	2	ALM	L1 Overload (High Level)	The load on this UPS output phase (1) exceeds its rated current or power by a substantial amount. The inverter can only sustain this overload for a short time (seconds) without shutting down due to overheating.	WKA_OOL	
163	21	3	ALM	L2 Overload (High Level)	The load on this UPS output phase (2) exceeds its rated current or power by a substantial amount. The inverter can only sustain this overload for a short time (seconds) without shutting down due to overheating.	WKA_OOL	
164	21	4	ALM	L3 Overload (High Level)	The load on this UPS output phase (3) exceeds its rated current or power by a substantial amount. The inverter can only sustain this overload for a short time (seconds) without shutting down due to overheating.	WKA_OOL	
165	21	5	ALM	L1 Overload (Extreme Level)	The load on this UPS output phase (1) exceeds its rated current or power by an extreme amount. The inverter cannot sustain this excessive overload and will shut down immediately or within seconds, transferring the load to bypass, if available.	WKA_OOL	
166	21	6	ALM	L2 Overload (Extreme Level)	The load on this UPS output phase (2) exceeds its rated current or power by an extreme amount. The inverter cannot sustain this excessive overload and will shut down immediately or within seconds, transferring the load to bypass, if available.	WKA_OOL	
167	21	7	ALM	L3 Overload (Extreme Level)	The load on this UPS output phase (3) exceeds its rated current or power by an extreme amount. The inverter cannot sustain this excessive overload and will shut down immediately or within seconds, transferring the load to bypass, if available.	WKA_OOL	
168	22	0	ALM	UPS On Battery	The UPS is drawing power from the battery in order to power the load. This alarm is not activated during non-alarming On Battery events, such as Quick Battery Test or Tap Switching.	WKA_OBT	This alarm is Required (to support Shutdown). Activating this alarm will eventually result in an OS shutdown.
169	22	1	ALM	UPS On Bypass	The UPS is on bypass. The critical load does not have protection against power loss or disturbances.	WKA_OBP	
170	22	2	ALM	Load Dumped (Load Power Off)	No power is being provided to the load (load dump). This alarm is used to record the date and time of a power off event.	WKA_OFF	
171	22	3	STS	Load On Inverter	The inverter is supplying power to the load. This may be true even if the UPS is on battery or bypass is not available.	WKA_NOT	
172	22	4	STS	Load Power On Command Received	A load control command to turn ON the/an output has been issued to the UPS (may be with a delay). This alarm is used to record the date and time of this event.	WKA_NOT	
173	22	5	STS	Load Off Command Received	A load control command to turn OFF the/an output has been issued to the UPS (may be with a delay). This alarm is used to record the date and time of this event.	WKA_NOT	

174	22	6	ALM	Low Battery Shutdown	The UPS has shutdown due to running on battery for a long enough time to exhaust the battery capacity.	WKA_BDC	
175	22	7	STS	Auto On Enabled	The UPS state is set so that it will power up automatically when input power is applied.	WKA_NOT	
176	23	0	ALM	Software Incompatibility Detected	In a multi-module system or internally to a UPS with multiple controllers, the firmware versions in place are not compatible with each other.	WKA_TST	
177	23	1	ALM	Check Inverter Temperature Sensor	The temperature sensor in the inverter module appears to have failed.	WKA_TMP	
178	23	2	STS	DC Start Occurred	The UPS has been started on battery when AC input power is not present. This alarm is used to record the date and time of this event.	WKA_NOT	
179	23	3	STS	In Parallel Operation	The UPS is operating in normal parallel mode.	WKA_NOT	
180	23	4	STS	Syncing To Bypass	The inverter output waveform is being synchronized (phase and frequency locked) to the bypass source.	WKA_NOT	
181	23	5	STS	Ramping UPS Up	The UPS is being started up.	WKA_NOT	
182	23	6	STS	Inverter On Delay	The built-in delay before starting the inverter up is running.	WKA_NOT	
183	23	7	STS	Rectifier Starting	The rectifier is starting up.	WKA_NOT	
184	24	0	ALM	Waiting For Utility Input	Used only when an auto-restart is enabled. The UPS controls are powered but the UPS can not start because input power is not yet present.	WKA_AWA	
185	24	1	STS	Close Bypass Switchgear	This is set during UPS ramp up when the UPS is ready for the user to close the bypass breaker.	WKA_NOT	
186	24	2	ALM	Emergency Transfer To Bypass	The load was automatically transferred to bypass to protect the load.	WKA_OBP	
187	24	3	STS	Syncing To Output	Used in parallel systems, this indicates that the local inverter is being phase locked to the critical bus waveform.	WKA_NOT	
188	24	4	ALM	Check Bypass	Check for a Bypass failure, including faults like static switch or bypass breaker failure.	WKA_SWB	
189	24	5	ALM	Load Off Command Executed	A LOAD OFF Command, entered by the operator or communication device, has been executed. The UPS will not turn On automatically, but the operator must use a keyswitch or command to restart the unit.	WKA_ORQ	
190	24	6	STS	Load Power On Command Executed	A LOAD ON Command has been entered by the operator or communication device. The UPS or Output will turn On automatically when input power is available.	WKA_NOT	
191	24	7	ALM	Battery Test Failed	A battery test has been executed and the results appear to indicate that the battery has failed and needs to be replaced.	WKA_BBD	
192	25	0	ALM	Check Fuse	At least one fuse in the UPS has failed and needs to be replaced.	WKA_FUS	
193	25	1	ALM	Check Fan	At least one fan in the UPS appears to have failed.	WKA_FAN	
194	25	2	ALM	Site Wiring Fault	There is a fault in the input wiring, other than Phase Rotation; e.g., Ground/Neutral reversed.	WKA_FAL	
195	25	3	ALM	Check Backfeed Switchgear	The contactor or relay designed to prevent voltage from backfeeding out from the UPS input appears to have failed.	WKA_SWB	
196	25	4	STS	On Buck/Voltage Reducer	On a line-interactive UPS, the input voltage is too high for the desired output range so the transformer tap has been changed to lower the effective input voltage to match the output voltage.	WKA_NOT	
197	25	5	STS	On Boost/Voltage Step Up	On a line-interactive UPS, the input voltage is too low for the desired output range so the transformer tap has been changed to raise the effective input voltage to match the output voltage.	WKA_NOT	

198	25	6	STS	On Double Boost/Voltage Step Up	On a line-interactive UPS, the input voltage is extremely low for the desired output range so the transformer tap has been changed to raise the effective input voltage to the maximum possible in order to match the output voltage.	WKA_NOT	
199	25	7	ALM	Batteries Disconnected	The UPS has detected that (some of) the Batteries are not connected and there is no or seriously reduced backup power.	WKA_BBD	
200	26	0	ALM	UPS Cabinet OverTemperature	The temperature inside the UPS cabinet or enclosure has exceeded its upper limit.	WKA_TMP	
201	26	1	ALM	Transformer OverTemperature	An Input or Output Transformer used by the UPS has exceeded its upper temperature limit.	WKA_TMP	
202	26	2	ALM	Ambient UnderTemperature	An ambient temperature probe has detected that the temperature is below its lower limit.	WKA_ATB	
203	26	3	ALM	Ambient OverTemperature	An ambient temperature probe has detected that the temperature is above its upper limit.	WKA_ATB	
204	26	4	ALM	Cabinet Door Open	The door or cover of the UPS has been opened.	WKA_BDA	
205	26	5	ALM	Cabinet Door Open With Voltage Present	The door or cover of the UPS has been opened, and dangerous voltages are present which could shock anyone touching them.	WKA_BDA	
206	26	6	ALM	Automatic Shutdown Pending	A condition exists in the UPS which will lead to the loss of power to the loads in less than the Low Battery Warning Time, unless the condition is cleared / removed.	WKA_SDP	Unlike Shutdown Imminent (#55), due to fault like Overload while On Battery. Note: This alarm is optional; however, if it is implemented, activating this alarm will force monitoring software to do a panic OS shutdown.
207	26	7	ALM	Tap-Switching Relay Failure	A fault has been detected in the relays which switch transformer taps.	WKA_SWB	
208	27	0	ALM	Unable To Charge Batteries	The charger circuit has determined this; may be due to bad batteries or open circuit in connections to the batteries.	WKA_RCT	
209	27	1	ALM	Startup Failed - Check EPO Reset	User attempted to start up the UPS but the system was unable to comply. It is most likely that the EPO is being continuously asserted. The user may need to activate the EPO Reset button to clear this condition.	WKA_FAL	
210	27	2	ALM	Automatic Startup Pending	This is a warning that the UPS has a scheduled automatic startup condition pending. The UPS could turn on at any time without any additional warning.	WKA_AWA	
211	27	3	ALM	Check Modem	The UPS has detected that a modem connected to it has failed or the UPS is unable to communicate with the modem.	WKA_LST	
212	27	4	STS	Incoming Modem Call Started	A modem connected to the UPS has received an incoming call and has begun to negotiate a connection.	WKA_NOT	
213	27	5	STS	Outgoing Modem Call Started	A modem connected to the UPS has gone off hook and has begun to either dial a number or negotiate a connection.	WKA_NOT	
214	27	6	STS	Modem Connection Established	A modem connected to the UPS has established a connection with a remote modem or paging service.	WKA_NOT	
215	27	7	STS	Modem Call Completed Successfully	A modem connected to the UPS has successfully completed an entire transaction sequence as expected.	WKA_NOT	
216	28	0	ALM	Modem Call Completion Failed	A modem connected to the UPS has failed to successfully complete a transaction sequence as expected.	WKA_LST	
217	28	1	ALM	Check Input Switchgear	Input or Utility fault: The input or utility breaker appears to have failed.	WKA_SWB	
218	28	2	STS	System Initialization In Progress	The UPS is undergoing a startup delay caused by the necessity to initialize various internal values, load code modules, etc.	WKA_NOT	(AKA "Inverter EEP Loading")
219	28	3	ALM	Autocalibration Failed	An attempt to automatically (re-) calibrate the UPS has failed.	WKA_TST	

220	28	4	ALM	Selective Trip Of Module	A UPS module has been automatically removed from a parallel system, usually due to improper load sharing or other fault.	WKA_MOD	
221	28	5	ALM	Inverter Output Failure	The inverter output has failed, and cannot support the load.The reasons for this alarm are, for example: inverter over or under voltage, over or under frequency, distorted waveform, output out-of-window, etc.	WKA_INV	
222	28	6	ALM	Abnormal Output Voltage At Startup	The UPS has detected an inappropriate voltage at its output before it is providing output. For example: some output voltage is detected before the UPS is supplying output power; in a parallel system, the output voltage is not in an acceptable range.	WKA_OBD	
223	28	7	ALM	Rectifier OverTemperature	Rectifier fault: temperature of a rectifier component has exceeded its upper temperature limit.	WKA_TMP	Differs from #249 Rectifier Over-Temperature Trip in that this may be just a warning.
224	29	0	ALM	Configuration Error	Improper system configuration has been detected. The reasons for this alarm are, for example: unmatched power rating data, conf data out of limits, improper sub-unit identification, etc	WKA_FAL	
225	29	1	ALM	Redundancy Loss Due To Overload	The specified power rating of an "n+1" parallel system has been exceeded. The load is supported, but the system lacks redundant protection while this overload persists.	WKA_LOR	See also #132 System Not Redundant
226	29	2	ALM	On Alternate AC Source	On systems with dual AC inputs, the power is currently being supplied by the Alternate (not the Preferred) Source.	WKA_ALT	
227	29	3	STS	In High Efficiency Mode	UPS is operating in High Efficiency Mode.	WKA_NOT	
228	29	4	NTC	System Notice Active	Cautionary Alert: If non-zero, there is at least one notice-level condition active at the System level at this time.	WKA_NTC	Has the value of the action level of the highest notice that is currently active. Does not include critical alarms (i.e., those in the System Alarm)
229	29	5	ALM	System Alarm Active	Critical Alert: If non-zero, there is at least one severe alarm active at the system level at this time.	WKA_ALM	Has the value of the action level of the highest critical alarm that is currently active. Does not include Notice alarms.
230	29	6	ALM	Alternate Power Source Not Available	On systems with a separate alternate power source (eg, dual AC inputs), that alternate power source is currently not available to support the load if the primary power source (eg, utility) fails.	WKA_ANA	
231	29	7	ALM	Current Balance Failure	In a double bridge rectifier, the current from the two bridges is unbalanced. This may be due to a fault in one of the rectifiers or to incorrect configuration.	WKA_FAL	
232	30	0	NTC	Check Air Filter	An air filter may need replacement and must be checked. This notice may be simply a periodic reminder from the UPS.	WKA_NTC	
233	30	1	NTC	Subsystem Notice Active	Cautionary Alert: If non-zero, there is at least one notice-level condition active at a subsystem level at this time.	WKA_NTC	Has the value of the action level of the highest subsystem notice that is currently active. Does not include critical alarms (i.e., those in the Subsystem Alarm) and might not trigger the System Notice.
234	30	2	ALM	Subsystem Alarm Active	If non-zero, there is at least one alarm active in a subsystem at this time.	WKA_ALM	Has the value of the action level of the most critical subsystem alarm that is currently active. Does not include Notice alarms. Might not trigger the System Alarm if the problem is handled by other modules.
235	30	3	STS	Charger On Command	The Charger On Command was entered by the operator or a communication device.	WKA_NOT	
236	30	4	STS	Charger Off Command	The Charger Off Command was entered by the operator or a communication device.	WKA_NOT	
237	30	5	STS	UPS Normal	The UPS is in its normal operating mode of operation.	WKA_NOT	
238	30	6	ALM	Inverter Phase Rotation	The Inverter phases are rotated (on the output).	WKA_OBD	
239	30	7	NTC	UPS Module Off	This UPS module is not supplying power to the Load; if other modules are available, they may be providing load power.	WKA_NTC	
240	31	0	ALM	External Communication Failure	A non-recoverable error has occurred on an external device network or node.	WKA_LST	
241	31	1	ALM	Invalid Board ID	A system module or board has an invalid hardware address, type, or node ID.	WKA_FAL	
242	31	2	ALM	Check Inverter Switchgear	Inverter fault: The inverter breaker or relay appears to have failed.	WKA_SWB	

					The UPS output power limit, measured in Watts, has been exceeded for the longer than allowed by the		
243	31	3	ALM	Output Watts Overload	internal time limit.	WKA_OOL	
244	31	4	ALM	Check Precharge	The Precharge circuit appears to have failed.	WKA_FAL	
245	31	5	STS	Rectifier Status	The Rectifier is On and operating in its normal mode.	WKA_NOT	
246	31	6	NTC	Neutral Current Limit	The Neutral regulator current exceeded the internal limit.	WKA_NTC	
247	31	7	ALM	Close Battery Switchgear	The Battery contactor or breaker is disconnected and there is no or seriously reduced backup power.	WKA_BBD	
248	32	0	ALM	UPS On Generator	The power source for the UPS is currently a Generator.	WKA_ALT	
249	32	1	ALM	Rectifier Over-Temperature Trip	The rectifier has exceeded its rated operating temperature and automatically shutdown.	WKA_TMP	Differs from #223 Rectifier OverTemperature in that this is a full alarm condition.
250	32	2	ALM	Check Rectifier Temperature Sensor	The temperature sensor in the rectifier module appears to have failed.	WKA_TMP	
251	32	3	STS	Inverter Switchgear Status	When true, indicates that the Inverter contactor, breaker or switch is closed.	WKA_NOT	Opposite sense of #108 Inverter Switchgear Open
252	32	4	STS	Rectifier Switchgear Status	When true, indicates that the rectifier contactor, breaker or switch is closed.	WKA_NOT	
253	32	5	STS	Bypass Switchgear Status	When true, indicates that the bypass contactor, breaker or switch is closed.	WKA_NOT	
254	32	6	STS	Battery Switchgear Status	When true, indicates that the battery contactor, breaker or switch is closed.	WKA_NOT	
255	32	7	STS	Backfeed Switchgear Status	When true, indicates that the backfeed contactor, breaker or switch is closed.	WKA_NOT	
256	33	0	NTC	Battery Test in Progress	A Battery Test has begun.	WKA_NTC	May be followed by #149 Check Battery or #191 Battery Test Failed, or #258 Test Aborted.
257	33	1	NTC	System Test in Progress	One of the Systems Tests has begun.	WKA_NTC	May be followed by #258 Test Aborted or some test-related alarm.
258	33	2	STS	Test Aborted	A Battery or Systems Test has been aborted while running due to conditions or operator command, or was inhibited from starting.	WKA_NTC	This is normally just an event to be logged, not a persistent status, since it's hard to say when it would end.
259	33	3	NTC	Rectifier L1 Current Limit	The input current on rectifier phase L1 has exceeded its limit.	WKA_NTC	
260	33	4	NTC	Rectifier L2 Current Limit	The input current on rectifier phase L2 has exceeded its limit.	WKA_NTC	
261	33	5	NTC	Rectifier L3 Current Limit	The input current on rectifier phase L3 has exceeded its limit.	WKA_NTC	
262	33	6	ALM	Not Enough UPMs Ready	In a parallel configuration, there are not enough UPMs in the Ready state to allow the system to go online. The system cannot transfer to UPS protection until more UPMs become Ready.	WKA_MOD	
263	33	7	NTC	Modem Call Aborted		WKA_NTC	
264	34	0	NTC	Transformer OverTemperature Warning		WKA_TMP	
265	34	1	ALM	Output Line Voltage Loss		WKA_OBD	
266	34	2	NTC	Input L1 High THD		WKA_NTC	
267	34	3	NTC	Input L2 High THD		WKA_NTC	
268	34	4	NTC	Input L3 High THD		WKA_NTC	
269	34	5	NTC	Output L1 High THD		WKA_NTC	
270	34	6	NTC	Output L2 High THD		WKA_NTC	
271	34	7	NTC	Output L3 High THD		WKA_NTC	
272	35	0	NTC	Neutral Overload Warning		WKA_NTC	
273	35	1	ALM	Neutral Overload		WKA_OOL	
274	35	2	NTC	Ground Current Warning		WKA_NTC	
275	35	3	ALM	Ground Current Overload		WKA_OOL	
276	35	4	NTC	Input Voltage L1 THD Warning		WKA_NTC	
277	35	5	NTC	Input Voltage L2 THD Warning		WKA_NTC	
278	35	6	NTC	Input Voltage L3 THD Warning		WKA_NTC	
279	35	7	NTC	Input Current L1 THD Warning		WKA_NTC	
280	36	0	NTC	Input Current L2 THD Warning		WKA_NTC	
281	36	1	NTC	Input Current L3 THD Warning		WKA_NTC	
282	36	2	NTC	Output Voltage L1 THD Warning		WKA_NTC	
283	36	3	NTC	Output Voltage L2 THD Warning		WKA_NTC	
284	36	4	NTC	Output Voltage L3 THD Warning		WKA_NTC	

285	36	5	NTC	Output Current L1 THD Warning		WKA_NTC	
286	36	6	NTC	Output Current L2 THD Warning		WKA_NTC	
287	36	7	NTC	Output Current L3 THD Warning		WKA_NTC	
288	37	0	ALM	Panel L1 Voltage Phase Loss			PDU alarms, not supported in PowerMIB
289	37	1	ALM	Panel L2 Voltage Phase Loss			
290	37	2	ALM	Panel L3 Voltage Phase Loss			
291	37	3	ALM	Panel L1 Under Voltage			
292	37	4	ALM	Panel L2 Under Voltage			
293	37	5	ALM	Panel L3 Under Voltage			
294	37	6	ALM	Panel L1 Over Voltage			
295	37	7	ALM	Panel L2 Over Voltage			
296	38	0	ALM	Panel L3 Over Voltage			
297	38	1	ALM	Panel Under Frequency			
298	38	2	ALM	Panel Over Frequency			
299	38	3	NTC	Branch Circuit Overload Warning	A Branch Circuit Breaker has exceeded the current overload warning level.		PDU alarms, not supported in PowerMIB
300	38	4	ALM	Branch Circuit Overload	A Branch Circuit Breaker has exceeded the current overload alarm level.		
301	38	5	ALM	Branch Circuit CT Disconnected	The Current Transformer (CT) for a Branch Circuit is not connected / open circuited.		
302	38	6	NTC	Main Circuit Breaker Overload Warning	The Panel's Main Circuit Breaker has exceeded the current overload warning level.		
303	38	7	ALM	Main Circuit Breaker Overload	The Panel's Main Circuit Breaker has exceeded the current overload alarm level.		
304	39	0	NTC	Primary Breaker Open	The Primary/Main/System/Input Breaker is in the Open position.	WKA_NTC	
305	39	1	ALM	Primary Breaker Tripped	The Primary/Main/System/Input Breaker has tripped due to current overload.	WKA_BRK	
306	39	2	NTC	Secondary Breaker Open	The Secondary/Output Breaker is in the Open position.	WKA_NTC	
307	39	3	ALM	Secondary Breaker Tripped	The Secondary/Output Breaker has tripped due to current overload.	WKA_BRK	
308	39	4	ALM	Neutral Fault	Loss of input/bypass neutral. UPS cannot transfer to bypass; depending on topology, UPS may transfer to battery.	WKA_INF	
309	39	5	ALM	Output Phase Rotation	The system output phases are rotated (on the customer load bus).	WKA_OBD	
310	39	6	ALM	Maintenance Isolation Switch Failure	The breaker has been commanded open/closed but does not indicate that position	WKA_SWB	
311	39	7	ALM	Maintenance Bypass Breaker Failure	The breaker has been commanded open/closed but does not indicate that position	WKA_SWB	
312	40	0	ALM	Manual Bypass Switch On	The SBM has been commanded to put the system onto the Bypass. Either from the display or external contact.	WKA_OBP	
313	40	1	ALM	Panel 1 Breaker Open	The Panel's main breaker is not closed.	WKA_BRK	For PDUs.
314	40	2	ALM	Panel 2 Breaker Open	The Panel's main breaker is not closed.	WKA_BRK	
315	40	3	ALM	Panel 3 Breaker Open	The Panel's main breaker is not closed.	WKA_BRK	
316	40	4	ALM	Panel 4 Breaker Open	The Panel's main breaker is not closed.	WKA_BRK	
317	40	5	ALM	Panel 5 Breaker Open	The Panel's main breaker is not closed.	WKA_BRK	
318	40	6	ALM	Panel 6 Breaker Open	The Panel's main breaker is not closed.	WKA_BRK	
319	40	7	ALM	Panel 7 Breaker Open	The Panel's main breaker is not closed.	WKA_BRK	
320	41	0	ALM	Panel 8 Breaker Open	The Panel's main breaker is not closed.	WKA_BRK	
321	41	1	ALM	Multiple Inputs Tied Together	More than one input source is enabled, tying them together in a potentially hazardous way.	WKA_SWB	
322	41	2	ALM	Battery Over Temperature	Battery Over Temperature		
323	41	3	ALM	Inverter Overload	The Panel's main breaker is not closed.		
324	41	4					
325	41	5					
326	41	6					
327	41	7					