Table 3.79 NX 225-600kVA UPS—IS-UNITY-DP—Status and Coil

DATA LABEL	STATUS	COIL	NUMBER OF BITS	NOTES
Input				
Rectifier Failure	10001	–	1	Active on Alarm
System Input Phs Rotation Error	10002	–	1	Active on Alarm
System Input Current Limit	10003	–	1	Active on Alarm
System Input Power Problem	10004	–	1	Active on Alarm
Bypass				
Bypass Static Switch Unavailable	10015	–	1	Active on Alarm
Bypass Input Voltage Fault	10016	–	1	Active on Alarm
Bypass Not Available	10017	–	1	Active on Alarm
Bypass Overload	10018	–	1	Active on Alarm
Battery				
Battery Test Failed	10029	–	1	Active on Alarm
Battery Test Passed	10030	–	1	Active on Alarm
Battery Terminals Reversed	10031	–	1	Active on Alarm
Battery Over Voltage	10032	–	1	Active on Alarm
Battery Temperature Out of Range	10033	–	1	Active on Alarm
Battery Low	10034	–	1	Active on Alarm
Battery Over Temperature	10035	–	1	Active on Alarm
Battery Discharging	10036	–	1	Active on Alarm
Battery Auto Test In Progress	10037	–	1	Active on Alarm
Battery Manual Test In Progress	10038	–	1	Active on Alarm
Battery Ground Fault	10039	–	1	Active on Alarm
DC Bus Abnormal	10040	–	1	Active on Alarm
Output				
System Output Off	10051	–	1	Active on Alarm
Output Load on Maint. Bypass	10052	–	1	Active on Alarm
UPS Output on Bypass	10053	–	1	Active on Alarm
Inverter				
Inverter Failure	10065	–	1	Active on Alarm
Inverter Overload	10066	–	1	Active on Alarm
System Output Fault	10067	–	1	Active on Alarm
Output Of/Uf	10068	–	1	Active on Alarm
System Shutdown - Output Short	10069	–	1	Active on Alarm
Inverter Desaturation	10070	–	1	Active on Alarm
Booster-Charger				

Table 3.79 NX 225-600kVA UPS—IS-UNITY-DP—Status and Coil (continued)

DATA LABEL	STATUS	COIL	NUMBER OF BITS	NOTES
Booster Failure	10081	–	1	Active on Alarm
Charger Failure	10082	–	1	Active on Alarm
System Status				
System Shutdown - EPO	10093	–	1	Active on Alarm
Generic DIC Fault	10094	–	1	Active on Alarm
Inlet Air Over Temperature	10095	–	1	Active on Alarm
Generic Test Event	10096	–	1	Active on Alarm
Fan Hours Exceeded	10097	–	1	Active on Alarm
Unit Shutdown	10098	–	1	Active on Alarm
Main Controller Fault	10099	–	1	Active on Alarm
Equipment Over Temperature	10100	–	1	Active on Alarm
Maximum Load Alarm	10101	–	1	Active on Alarm
Ground Fault	10102	–	1	Active on Alarm
Switch Gear				
Backfeed Breaker Open	10113	–	1	Active on Alarm
Input Breaker Open	10114	–	1	Active on Alarm
Output Breaker Open	10115	–	1	Active on Alarm
Maintenance Bypass Breaker Closed	10116	–	1	Active on Alarm
Battery Breaker Open	10117	–	1	Active on Alarm

Table 3.80 NX 225-600kVA UPS—IS-UNITY-DP—Input and Holding

DATA LABEL	INPUT	HOLDING	# OF REG	SCALE	NOTES/UNITS
Input					
System Input RMS A-B	30385	–	1	10	Units : VAC Uint16
System Input RMS B-C	30386	–	1	10	Units : VAC Uint16
System Input RMS C-A	30387	–	1	10	Units : VAC Uint16
System Input RMS Current Phase A	30388	–	1	10	Units : A AC Uint16
System Input RMS Current Phase B	30389	–	1	10	Units : A AC Uint16
System Input RMS Current Phase C	30390	–	1	10	Units : A AC Uint16
System Input Frequency	30391	–	1	10	Units : Hz Uint16

Table 3.80 NX 225-600kVA UPS—IS-UNITY-DP—Input and Holding (continued)

DATA LABEL	INPUT	HOLDING	# OF REG	SCALE	NOTES/UNITS
Rectifier Status	30392	–	1	–	0 = off 1 = on
Rectifier Module Temperatures 1					
Rectifier Phase A Temperature sensor	30403	–	1	–	Units : deg C Uint16
Rectifier Phase A Temperature sensor	30404	–	1	–	Units : deg F Uint16
Rectifier Phase B Temperature sensor	30405	–	1	–	Units : deg C Uint16
Rectifier Phase B Temperature sensor	30406	–	1	–	Units : deg F Uint16
Rectifier Phase C Temperature sensor	30407	–	1	–	Units : deg C Uint16
Rectifier Phase C Temperature sensor	30408	–	1	–	Units : deg F Uint16
Rectifier Module Temperatures 2					
Rectifier Phase A Temperature sensor	30419	–	1	–	Units : deg C Uint16
Rectifier Phase A Temperature sensor	30420	–	1	–	Units : deg F Uint16
Rectifier Phase B Temperature sensor	30421	–	1	–	Units : deg C Uint16
Rectifier Phase B Temperature sensor	30422	–	1	–	Units : deg F Uint16
Rectifier Phase C Temperature sensor	30423	–	1	–	Units : deg C Uint16
Rectifier Phase C Temperature sensor	30424	–	1	–	Units : deg F Uint16
Rectifier Module Temperatures 4					
Rectifier Phase A Temperature sensor	30451	–	1	–	Units : deg C Uint16
Rectifier Phase A Temperature sensor	30452	–	1	–	Units : deg F Uint16
Rectifier Phase B Temperature sensor	30453	–	1	–	Units : deg C Uint16
Rectifier Phase B Temperature sensor	30454	–	1	–	Units : deg F Uint16
Rectifier Phase C Temperature sensor	30455	–	1	–	Units : deg C Uint16
Rectifier Phase C Temperature sensor	30456	–	1	–	Units : deg F Uint16

Table 3.80 NX 225-600kVA UPS—IS-UNITY-DP—Input and Holding (continued)

DATA LABEL	INPUT	HOLDING	# OF REG	SCALE	NOTES/UNITS
Bypass					
Bypass Input Voltage RMS A-B	30467	–	1	–	Units : VAC Uint16
Bypass Input Voltage RMS B-C	30468	–	1	–	Units : VAC Uint16
Bypass Input Voltage RMS C-A	30469	–	1	–	Units : VAC Uint16
Bypass Input Frequency	30470	–	1	–	Units : Hz Uint16
Static Bypass Switch	30471	–	1	–	0 = off 1 = on
Bypass Qualification Status	30472	–	1	–	0 = Fail 1 = Marginal Low 2 = Normal 3 = Marginal High
Battery					
DC Bus Voltage	30483	–	1	–	Units : VDC Uint16
Battery Volts for Cabinet	30484	–	1	–	Units : VDC Uint16
DC Bus Current	30485	–	1	–	Units : A DC Uint16
Battery Time Remaining	30486	–	1	–	Units : min Uint16
Battery Percentage Charge	30487	–	1	–	Units : % Uint16
Battery Temperature for Cabinet	30488	–	1	–	Units : deg C Uint16
Battery Temperature for Cabinet	30489	–	1	–	Units : deg F Uint16
DC Bus Qualification Status	30490	–	1	–	0 = Fail 1 = Marginal Low 2 = Normal 3 = Marginal High
UPS battery1 status	30491	–	1	–	1 = Unknown 2 = Normal 3 = Low 4 = Depleted
Output					
System Output Voltage RMS A-B	30502	–	1	10	Units : VAC Uint16

Table 3.80 NX 225-600kVA UPS—IS-UNITY-DP—Input and Holding (continued)

DATA LABEL	INPUT	HOLDING	# OF REG	SCALE	NOTES/UNITS
System Output Voltage RMS B-C	30503	–	1	10	Units : VAC Uint16
System Output Voltage RMS C-A	30504	–	1	10	Units : VAC Uint16
System Output RMS Current Phs A	30505	–	1	10	Units : A AC Uint16
System Output RMS Current Phs B	30506	–	1	10	Units : A AC Uint16
System Output RMS Current Phs C	30507	–	1	10	Units : A AC Uint16
System Output Frequency	30508	–	1	10	Units : Hz Uint16
System Output Apparent Power	30509	–	1	–	Units : kVA Uint16
System Output Power	30510	–	1	–	Units : kW Uint16
System Output Apparent Power Phs A	30511	–	1	–	Units : kVA Uint16
System Output Apparent Power Phs B	30512	–	1	–	Units : kVA Uint16
System Output Apparent Power Phs C	30513	–	1	–	Units : kVA Uint16
System Output Power Phase A	30514	–	1	–	Units : kW Uint16
System Output Power Phase B	30515	–	1	–	Units : kW Uint16
System Output Power Phase C	30516	–	1	–	Units : kW Uint16
System Output Pct Power Phase A	30517	–	1	–	Units : % Uint16
System Output Pct Power Phase B	30518	–	1	–	Units : % Uint16
System Output Pct Power Phase C	30519	–	1	–	Units : % Uint16
Output Percent Load	30520	–	1	–	Units : % Uint16
Temperature	30521	–	1	–	Units : deg C Uint16
Temperature	30522	–	1	–	Units : deg F Uint16

Table 3.80 NX 225-600kVA UPS—IS-UNITY-DP—Input and Holding (continued)

DATA LABEL	INPUT	HOLDING	# OF REG	SCALE	NOTES/UNITS
UPS Output Source	30523	–	1	–	1 = Other 2 = Off 3 = Normal 4 = Bypass 5 = Battery 6 = Booster 7 = Reducer
Load Power Source	30524	–	1	–	0 = Load Off 1 = UPS 2 = Maintenance Bypass
Inverter					
Inverter Overload Time Remaining	30535	–	1	–	Units : sec Int16
Inverter On/Off State	30536	–	1	–	0 = off 1 = on
Inverter Synchronization Source	30537	–	1	–	0 = External 1 = Self clock (internal) 2 = Output 3 = Bypass
Inverter Module Temperatures 1					
Inverter Phase A Temperature sensor	30548	–	1	–	Units : deg C Uint16
Inverter Phase A Temperature sensor	30549	–	1	–	Units : deg F Uint16
Inverter Phase B Temperature sensor	30550	–	1	–	Units : deg C Uint16
Inverter Phase B Temperature sensor	30551	–	1	–	Units : deg F Uint16
Inverter Phase C temperature sensor	30552	–	1	–	Units : deg C Uint16
Inverter Phase C temperature sensor	30553	–	1	–	Units : deg F Uint16
Inverter Module Temperatures 2					
Inverter Phase A Temperature sensor	30564	–	1	–	Units : deg C Uint16
Inverter Phase A Temperature sensor	30565	–	1	–	Units : deg F Uint16
Inverter Phase B Temperature sensor	30566	–	1	–	Units : deg C Uint16

Table 3.80 NX 225-600kVA UPS—IS-UNITY-DP—Input and Holding (continued)

DATA LABEL	INPUT	HOLDING	# OF REG	SCALE	NOTES/UNITS
Inverter Phase B Temperature sensor	30567	–	1	–	Units : deg F Uint16
Inverter Phase C temperature sensor	30568	–	1	–	Units : deg C Uint16
Inverter Phase C temperature sensor	30569	–	1	–	Units : deg F Uint16
Inverter Module Temperatures 4					
Inverter Phase A Temperature sensor	30596	–	1	–	Units : deg C Uint16
Inverter Phase A Temperature sensor	30597	–	1	–	Units : deg F Uint16
Inverter Phase B Temperature sensor	30598	–	1	–	Units : deg C Uint16
Inverter Phase B Temperature sensor	30599	–	1	–	Units : deg F Uint16
Inverter Phase C temperature sensor	30600	–	1	–	Units : deg C Uint16
Inverter Phase C temperature sensor	30601	–	1	–	Units : deg F Uint16
Booster-Charger					
Battery Recharge Voltage	30612	–	1	100	Units : VDC Uint16
Max Charge Current	30613	–	1	–	Units : A DC Uint16
Booster On/Off State	30614	–	1	–	0 = off 1 = on
Charger On/Off State	30615	–	1	–	0 = off 1 = on
Booster Charger Module Temperatures 1					
Booster-Charger Temperature	30626	–	1	–	Units : deg C Uint16
Booster-Charger Temperature	30627	–	1	–	Units : deg F Uint16
Booster Charger Module Temperatures 2					
Booster-Charger Temperature	30638	–	1	–	Units : deg C Uint16
Booster-Charger Temperature	30639	–	1	–	Units : deg F Uint16
Booster Charger Module Temperatures 4					
Booster-Charger Temperature	30662	–	1	–	Units : deg F Uint16

Table 3.80 NX 225-600kVA UPS—IS-UNITY-DP—Input and Holding (continued)

DATA LABEL	INPUT	HOLDING	# OF REG	SCALE	NOTES/UNITS
Booster-Charger Temperature	30663	–	1	–	Units : deg C Uint16
System Status					
System Status	30674	–	1	–	1 = Normal Operation 2 = StartUp 8 = Normal with Warning 16 = Normal with Alarm 32 = Abnormal Operation
UPS Operating Mode	30675	–	1	–	0 = Idle 1 = Double Conversion Mode (VFI) 2 = Interactive Mode (VI) 3 = Stand-By Mode (VFD) 4 = CR Mode (CR) 5 = ECO Mode (DIM)
ECO Mode Operation State	30676	–	1	–	0 = disabled 1 = enabled
Ratings					
Output Apparent Power Rating	30687	–	1	–	Units : kVA Uint16
System Input Nominal Voltage	30688	–	1	–	Units : VAC Uint16
System Input Nominal Frequency	30689	–	1	–	Units : Hz Uint16

Table 3.81 NX 225-600kVA UPS—IS-UNITY-DP—Glossary

DATA LABEL	DATA DESCRIPTION
Backfeed Breaker Open	The backfeed breaker is in the open position
Battery Auto Test In Progress	Automatic battery test is in progress
Battery Breaker Open	The battery circuit is open.
Battery Discharging	The battery is discharging
Battery Ground Fault	Battery system ground fault amperage exceeds the threshold
Battery Low	The calculated battery time remaining has reached the low battery threshold
Battery Manual Test In Progress	Manual battery test is in progress
Battery Over Temperature	A battery temperature sensor is reporting a value above a threshold
Battery Over Voltage	The system has detected that the battery voltage has exceeded a predetermined limit.
Battery Percentage Charge	The percentage of battery charge
Battery Recharge Voltage	The recharge cell voltage for the battery.
Battery Temperature for	The battery temperature for a cabinet

Table 3.81 NX 225-600kVA UPS—IS-UNITY-DP—Glossary (continued)

DATA LABEL	DATA DESCRIPTION
Cabinet	
Battery Temperature Out of Range	Battery temperature is outside of acceptable range.
Battery Terminals Reversed	The measured battery voltage is a negative value due to reverse battery terminal connections.
Battery Test Failed	Battery test failed
Battery Test Passed	Battery test passed
Battery Time Remaining	The calculated available time on battery
Battery Volts for Cabinet	The voltage between the positive and negative battery terminals of a battery cabinet
Booster Failure	Booster failure - boost is off
Booster On/Off State	Booster on/off state
Booster-Charger Temperature	Temperature measured at the charger stage
Bypass Input Frequency	The bypass input frequency
Bypass Input Voltage Fault	The system has detected the bypass voltage is unqualified.
Bypass Input Voltage RMS A-B	The bypass input RMS voltage between phases A and B
Bypass Input Voltage RMS B-C	The bypass input RMS voltage between phases B and C
Bypass Input Voltage RMS C-A	The bypass input RMS voltage between phases C and A
Bypass Not Available	A problem associated with the bypass has been detected
Bypass Overload	Bypass overloaded, reduce load immediately.
Bypass Qualification Status	bypass qualification status
Bypass Static Switch Unavailable	The static bypass is unavailable to support the critical load.
Charger Failure	Charger Failure - Charger is off
Charger On/Off State	Charger on/off state
DC Bus Abnormal	The system has detected an abnormal DC Bus Voltage.
DC Bus Current	The current at the battery input terminals. In charging mode, the current will be a positive value. In discharging mode, the current will be a negative value
DC Bus Qualification Status	dc bus qualification status
DC Bus Voltage	The voltage between the postivie and negative terminals of the internal DC Bus.
ECO Mode Operation State	This setting is used to enable or disable ECO Mode.
Equipment Over Temperature	Equipment over temperature summary event
Fan Hours Exceeded	Operating hours for the unit blower fan have exceeded the threshold.
Generic DIC Fault	The control board reports a fault - Service required.
Generic Test Event	A generic test event designed to evaluate system handling of events
Ground Fault	An AC phase to ground fault or three phase fault to ground exists on the output of the UPS.
Inlet Air Over Temperature	The inlet air exceeds the maximum temperature threshold

Table 3.81 NX 225-600kVA UPS—IS-UNITY-DP—Glossary (continued)

DATA LABEL	DATA DESCRIPTION
Input Breaker Open	The main input breaker is open.
Inverter Desaturation	Inverter Desaturation
Inverter Failure	Inverter failure - inverter output is off
Inverter On/Off State	inverter on/off state
Inverter Overload Time Remaining	The calculated time remaining before inverter shutdown
Inverter Overload	Inverter in overload fault
Inverter Phase A Temperature sensor	Inverter temperature sensor reading for Phase A.
Inverter Phase B Temperature sensor	Inverter temperature sensor reading for Phase B.
Inverter Phase C temperature sensor	Inverter temperature sensor reading for Phase C.
Inverter Synchronization Source	The reference source for inverter synchronization
Load Power Source	Load power source
Main Controller Fault	A Main Controller fault has been detected.
Maintenance Bypass Breaker Closed	The maintenance bypass breaker is closed.
Max Charge Current	The maximum allowed current to be used for charging the batteries.
Maximum Load Alarm	Maximum load alarm indicating load setting has been exceeded.
Output Apparent Power Rating	Output apparent power rating
Output Breaker Open	The output breaker is open.
Output Load on Maint. Bypass	The output power is supplied by the maintenance bypass
Output Of/Uf	The output frequency has exceeded a specified range for a specified period of time.
Output Percent Load	The percentage of the system's total rated output current that is flowing from the system.
Rectifier Failure	Rectifier failure - rectifier is off
Rectifier Phase A Temperature sensor	Rectifier temperature sensor reading for Phase A.
Rectifier Phase B Temperature sensor	Rectifier temperature sensor reading for Phase B.
Rectifier Phase C Temperature sensor	Rectifier temperature sensor reading for Phase C.
Rectifier Status	rectifier status
Static Bypass Switch	Static Bypass Switch state - On/Off
System Input Current Limit	The RMS input current has reached the input current limit threshold
System Input Frequency	The system input frequency
System Input Nominal Frequency	The nominal (or rated) system input frequency

Table 3.81 NX 225-600kVA UPS—IS-UNITY-DP—Glossary (continued)

DATA LABEL	DATA DESCRIPTION
System Input Nominal Voltage	The nominal (or rated) system input voltage
System Input Phs Rotation Error	The power conductors on the input line are not wired to the UPS in the sequence preferred for the rectifier (A-B-C)
System Input Power Problem	The input is not qualified to provide power to the system
System Input RMS A-B	The System Input RMS Voltage between Phase A and Phase B
System Input RMS B-C	The System Input RMS Voltage between Phase B and Phase C
System Input RMS C-A	The System Input RMS Voltage between Phase C and Phase A
System Input RMS Current Phase A	The system input RMS current for Phase A
System Input RMS Current Phase B	The system input RMS current for Phase B
System Input RMS Current Phase C	The system input RMS current for Phase C
System Output Apparent Power Phs A	System output apparent power on phase A
System Output Apparent Power Phs B	System output apparent power on phase B
System Output Apparent Power Phs C	System output apparent power on phase C
System Output Apparent Power	The sum total apparent power of all system output phases
System Output Fault	A fault has been detected in the system output
System Output Frequency	The system output frequency
System Output Off	The system output is off
System Output Pct Power Phase A	The system output power on phase A as a percentage of the rated capacity
System Output Pct Power Phase B	The system output power on phase B as a percentage of the rated capacity
System Output Pct Power Phase C	The system output power on phase C as a percentage of the rated capacity
System Output Power Phase A	The system output power on phase A.
System Output Power Phase B	The system output power on phase B.
System Output Power Phase C	The system output power on phase C.
System Output Power	The sum total power of all system output phases
System Output RMS Current Phs A	The system output RMS current for Phase A
System Output RMS Current Phs B	The system output RMS current for Phase B
System Output RMS Current Phs C	The system output RMS current for Phase C

Table 3.81 NX 225-600kVA UPS—IS-UNITY-DP—Glossary (continued)

DATA LABEL	DATA DESCRIPTION
System Output Voltage RMS A-B	The system output RMS voltage between phases A and B
System Output Voltage RMS B-C	The system output RMS voltage between phases B and C
System Output Voltage RMS C-A	The system output RMS voltage between phases C and A
System Shutdown - EPO	System shutdown due to Emergency Power Off (EPO)
System Shutdown - Output Short	Shutdown was due to a short on the output.
System Status	The operating status for the system
Temperature	Temperature measured at the temperature sensor
Unit Shutdown	An event has occurred requiring the unit to be shutdown and disabled to prevent damage to the system.
UPS battery1 status	UPS battery status
UPS Operating Mode	UPS Operating Mode
UPS Output on Bypass	The output power is supplied by the bypass
UPS Output Source	UPS output source

Table 3.82 NXL—60Hz, UL version (Model 40)—Status and Coil

DATA LABEL	STATUS	COIL	# OF BITS	NOTES	NXL TYPE
Battery Self Test	10082		1	Active on Alarm	SMS, 1+N, N+1, 1+1
Battery Low Shutdown	10092		1	Active on Alarm	SMS, 1+N, N+1, 1+1
System Shutdown - REPO	10093		1	Active on Alarm	SMS, 1+N, N+1, 1+1
UPS Output on Bypass	10129		1	Active on Alarm	SMS, 1+N, SCC, 1+1
Output Load on Maint. Bypass	10132		1	Active on Alarm	SMS, 1+N, SCC, 1+1
Main Battery Disconnect Open	10136		1	Active on Alarm	SMS, 1+N, N+1, 1+1
Bypass - Excess Auto Retransfers	10147		1	Active on Alarm	SMS, 1+N, SCC, 1+1
Battery Low	10152		1	Active on Alarm	SMS, 1+N, N+1, 1+1
System Shutdown - EPO	10157		1	Active on Alarm	SMS, 1+N, N+1, 1+1
System Output Off	10158		1	Active on Alarm	Deprecated
Battery Over Temperature	10172		1	Active on Alarm	SMS, 1+N, N+1, 1+1
Inlet Air Over Temperature	10173		1	Active on Alarm	SMS, 1+N, N+1, 1+1
System Input Current Imbalance	10185		1	Active on Alarm	SMS, 1+N, N+1, 1+1
System Input Phs Rotation Error	10191		1	Active on Alarm	SMS, 1+N, N+1, 1+1
Rectifier Failure	10259		1	Active on Alarm	SMS, 1+N, N+1, 1+1
Inverter Failure	10263		1	Active on Alarm	SMS, 1+N, N+1, 1+1
Main Controller Fault	10293		1	Active on Alarm	SMS, 1+N, N+1, 1+1
Bypass Not Available	10321		1	Active on Alarm	SMS, 1+N, SCC, 1+1
Bypass Overload Phase A	10322		1	Active on Alarm	SMS, 1+N, SCC, 1+1
Bypass Overload Phase B	10323		1	Active on Alarm	SMS, 1+N, SCC, 1+1