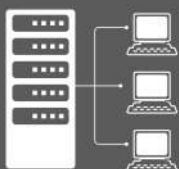


SERVERS



DATA CENTERS



INDUSTRY



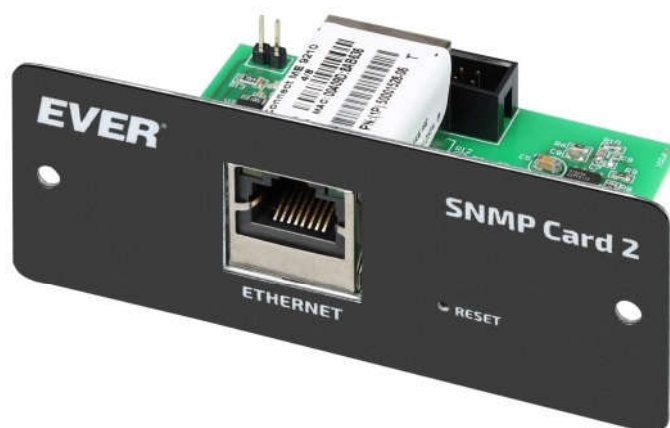
BANKING



TELECOMMUNICATIONS



MEDICAL EQUIPMENT



EVER-MIB SNMP MIB User Manual for:

POWERLINE 33
POWERLINE GREEN 33
POWERLINE GREEN 33 LITE
POWERLINE GREEN 33 PRO

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CONTENTS

CONTENTS.....	2
INTRODUCTION	5
upsVFI33Id branch	6
upsIdType	6
upsIdRatedApparentPower	6
upsIdRatedActivePower	6
upsIdFirmwareVersionRaw	7
upsIdHardwareVersionRaw	7
upsIdProtocolVersionRaw	8
upsVFI33UpsInformation branch.....	9
upsInfoOperatingModeRaw	9
upsInfoWarningsAndInformations1Raw	10
upsInfoAlarmsRaw	11
upsInfoInternalTemperature0	12
upsInfoInternalTemperature1	12
upsInfoInternalTemperature2	12
upsInfoInternalTemperature3	12
upsInfoPositiveBatteryVoltage	13
upsInfoNegativeBatteryVoltage.....	13
upsInfoPositiveBatteryCurrent	13
upsInfoNegativeBatteryCurrent.....	13
upsInfoAvailableBatteryCapacity	14
upsInfoAutonomyTime	14
upsInfoBatteryCondition.....	14
upsInfoAmbientTemperature	14
upsInfoRelativeHumidity.....	15
upsInfoWarningsAndInformations2Raw	15
upsVFI33Input branch	17
upsInputVoltageL1	17
upsInputVoltageL2	17
upsInputVoltageL3	17
upsInputCurrentL1	18
upsInputCurrentL2	18
upsInputCurrentL3	18
upsInputActivePowerL1	18
upsInputActivePowerL2	19
upsInputActivePowerL3	19
upsInputApparentPowerL1	19
upsInputApparentPowerL2	19
upsInputApparentPowerL3	20
upsInputPowerFactorL1	20
upsInputPowerFactorL2	20
upsInputPowerFactorL3	20
upsInputFrequency	21
upsVFI33Bypass branch.....	22
upsBypassVoltageL1.....	22
upsBypassVoltageL2.....	22
upsBypassVoltageL3.....	22
upsBypassCurrentL1.....	23
upsBypassCurrentL2.....	23
upsBypassCurrentL3.....	23
upsBypassActivePowerL1.....	23
upsBypassActivePowerL2.....	24
upsBypassActivePowerL3.....	24

upsBypassApparentPowerL1	24
upsBypassApparentPowerL2	24
upsBypassApparentPowerL3	25
upsBypassPowerFactorL1	25
upsBypassPowerFactorL2	25
upsBypassPowerFactorL3	25
upsBypassFrequency	26
upsVFI33Output branch	27
upsOutputVoltageL1	27
upsOutputVoltageL2	27
upsOutputVoltageL3	27
upsOutputCurrentL1	28
upsOutputCurrentL2	28
upsOutputCurrentL3	28
upsOutputActivePowerL1	28
upsOutputActivePowerL2	29
upsOutputActivePowerL3	29
upsOutputApparentPowerL1	29
upsOutputApparentPowerL2	29
upsOutputApparentPowerL3	30
upsOutputPowerFactorL1	30
upsOutputPowerFactorL2	30
upsOutputPowerFactorL3	30
upsOutputPercentLoadL1	31
upsOutputPercentLoadL2	31
upsOutputPercentLoadL3	31
upsOutputFrequency	31
upsVFI33Configuration branch	32
upsConfigControlRaw	32
upsConfigOutputVoltageL1	34
upsConfigOutputVoltageL2	34
upsConfigOutputVoltageL3	35
upsConfigMaximumBypassVoltage	35
upsConfigMinimumBypassVoltage	35
upsConfigMaximumBypassFrequency	35
upsConfigMinimumBypassFrequency	36
upsConfigDelayBeforeStandby	36
upsConfigMinimumBatteryChargeLevel	36
upsConfigOutputOverloadClearThreshold	36
upsConfigBatteryCapacity	37
upsConfigNumberOfParalleledBatteryStrings	37
upsConfigBatteryChargingCurrent	37
upsConfigUnitAddressInParallelOperation	37
upsConfigMinUnitsInParallelOperation	38
upsConfigModbusAddress	38
upsConfigRemainingAutonomyTimeForLowBattery	38
upsVFI33Statistics branch	39
upsStatisticsMainsFailsCounter	39
upsStatisticsOutputOverloadCounter	39
upsStatisticsOutputShortCircuitCounter	39
upsStatisticsDischargeCounter	40
upsStatisticsRectifierOverTemperatureCounter	40
upsStatisticsInverterOverTemperatureCounter	40
upsStatisticsOverloadedOperationTime	40
upsStatisticsNormalOperationTime	41
upsStatisticsBatteryBackupOperationTime	41
upsStatisticsBypassOperationTime	41
upsVFI33Events branch	42

upsEventsIndexRaw	42
upsEventsCodeMonthRaw	42
upsEventsDayHourRaw	44
upsEventsMinuteSecondRaw.....	45

INTRODUCTION

This document describes the MIB objects available from *EVER-MIB* used for monitoring and managing the operation of UPS EVER.

The manual is based on EVER VFI UPSs from the *POWERLINE 33*, *POWERLINE GREEN 33*, *POWERLINE GREEN 33 LITE* and *POWERLINE GREEN 33 PRO* series. The objects used to manage these UPSs are located in the ***.iso.org.dod.internet.private.enterprises.ever.upsEver.komVFI33*** branch.

In the following chapters of the documentation, all branches included in ***komVFI33*** will be explained along with all OID objects included in each branch.

upsVFI33Id branch

General information about the UPS (power ratings, firmware, hardware and protocol versions).

upsIdType

Product code (for internal purposes).

OID	<i>.iso.org.dod.internet.private.enterprises.ever.upsEver.komVFI33.upsVFI33Id.upsIdType</i>
	<i>.1.3.6.1.4.1.9797.1.5.1.1</i>
Type	Integer
Access	Read
Format	-

upsIdRatedApparentPower

Rated apparent power of the UPS.

OID	<i>.iso.org.dod.internet.private.enterprises.ever.upsEver.komVFI33.upsVFI33Id.upsIdRatedApparentPower</i>
	<i>.1.3.6.1.4.1.9797.1.5.1.2</i>
Type	Integer
Access	Read
Format	x*0.1 [kVA] (600 = 60.0 kVA)

upsIdRatedActivePower

Rated active power of the UPS.

OID	<i>.iso.org.dod.internet.private.enterprises.ever.upsEver.komVFI33.upsVFI33Id.upsIdRatedActivePower</i>
	<i>.1.3.6.1.4.1.9797.1.5.1.3</i>
Type	Integer
Access	Read
Format	x*0.1 [kW] (450 = 45.0 kW)

upsIdFirmwareVersionRaw

Firmware version in UPS protocol format (raw).

OID	<i>.iso.org.dod.internet.private.enterprises.ever.upsEver.komVFI33.upsVFI33Id.upsIdFirmwareVersionRaw</i>
	<i>.1.3.6.1.4.1.9797.1.5.1.4</i>
Type	Integer
Access	Read
Format	-

The firmware version is decoded as follows:

- Read the OID value of **upsIdFirmwareVersionRaw**
upsIdFirmwareVersionRaw.0 12546
- Convert the read value to hexadecimal
12546 = 0x3102
- The oldest byte (MSB) is the firmware version - save it as:
0x31 -> v3.1
- The youngest byte (LSB) is the firmware build version - save it as:
0x02 -> b02

The firmware version is **v3.1 b02**

upsIdHardwareVersionRaw

Hardware version in UPS protocol format (raw).

OID	<i>.iso.org.dod.internet.private.enterprises.ever.upsEver.komVFI33.upsVFI33Id.upsIdHardwareVersionRaw</i>
	<i>.1.3.6.1.4.1.9797.1.5.1.5</i>
Type	Integer
Access	Read
Format	-

The hardware version is decoded as follows:

- Read the OID value of **upsIdHardwareVersionRaw**
upsIdHardwareVersionRaw.0 770
- Convert the read value to hexadecimal
770 = 0x0302
- The oldest byte (MSB) is the revision of the hardware platform. The revision marking is given in the following code:
1 → A, 2 → B, 3 → C, ...
Value 0x03 means revision "C" (rev. C)
- The lowest byte (LSB) represents the revision versions:
0x02 -> v.02

The hardware version is **rev. C v.02**

upsIdProtocolVersionRaw

Communication protocol version in UPS protocol format (raw).

OID	<i>.iso.org.dod.internet.private.enterprises.ever.upsEver.komVFI33.upsVFI33Id.upsIdProtocolVersionRaw</i>
	<i>.1.3.6.1.4.1.9797.1.5.1.6</i>
Type	Integer
Access	Read
Format	-

The protocol version is decoded as follows:

- Read the OID value of **upsIdProtocolVersionRaw**
upsIdProtocolVersionRaw.0 12545
- Convert the read value to hexadecimal
12545 = 0x3101
- The oldest byte (MSB) is the protocol version - save it as:
0x31 -> v3.1
- The youngest byte (LSB) is the protocol build version - save it as:
0x01 -> b01

The protocol version is **v3.1 b01**

upsVFI33UpsInformation branch

Current UPS operating parameters (operating mode, information, warning and alarm messages, values of the most important UPS parameters).

upsInfoOperatingModeRaw

UPS operating mode in UPS protocol format (raw).

OID	<i>.iso.org.dod.internet.private.enterprises.ever.upsEver.comVFI33.upsVFI33UpsInformation.upsInfoOperatingModeRaw</i>
	<i>.1.3.6.1.4.1.9797.1.5.2.1</i>
Type	Integer
Access	Read
Format	-

To determine the current operating mode, read the OID **upsInfoOperatingModeRaw** value and find the operating mode assigned to a given value in the table below.

Value	Operating Mode
0	Unknown
1	Normal
2	ECO
4	BYPASS
8	Battery backup
16	Standby
32	Watch
64	Emergency
128	Initialization
256	STOP
512	Hybrid

For example, the parameter OID **upsInfoOperatingModeRaw** with the value **256** means the **STOP** operating mode.

upsInfoWarningsAndInformations1Raw

Information and warnings in UPS protocol format (raw) .

OID	<i>.iso.org.dod.internet.private.enterprises.ever.upsEver.komVFI33.upsVFI33UpsInformation.upsInfoWarningsAndInformations1Raw</i> <i>.1.3.6.1.4.1.9797.1.5.2.2</i>
Type	Integer
Access	Read
Format	-

To determine what informational and warning messages are reported by the UPS, perform the following steps:

- Read the OID value of **upsInfoWarningsAndInformations1Raw**
upsInfoWarningsAndInformations1Raw.0 129
- Convert the read value to a binary system
129 = 0000 0000 1000 0001
bit 15^ ^bit 0
All bits set to high (1) mean that the associated information/warning message is active.
In the example above, bits 7 and 0 are set.
- From the table below, read the information/warning messages reported by the UPS

Bit	Warning/Information
0	Battery charging
1	UPS output overload
2	Rectifier over temperature
3	Inverter over temperature
4	Waiting for the minimum state of battery charge
5	Low battery
6	Service
7	Bypass
8	Rectifier communication fail
9	Inverter communication fail
10	Bypass input phase sequence fail
11	Bypass input out of range
12	Battery open circuit
13	Mains input out of range
14	Mains input phase sequence fail
15	Schedule active

OID **upsInfoWarningsAndInformations1Raw** with value 129 (bits 0 and 7 set) means information/warnings: “**Battery charging**” and “**Bypass**”.

upsInfoInternalTemperature0

Temperature of internal functional blocks.

OID	<i>.iso.org.dod.internet.private.enterprises.ever.upsEver.komVFI33.upsVFI33UpsInformation.upsInfoInternalTemperature0</i>
	<i>.1.3.6.1.4.1.9797.1.5.2.4</i>
Type	Integer
Access	Read
Format	x [°C] (40 = 40°C)

upsInfoInternalTemperature1

Temperature of internal functional blocks.

OID	<i>.iso.org.dod.internet.private.enterprises.ever.upsEver.komVFI33.upsVFI33UpsInformation.upsInfoInternalTemperature1</i>
	<i>.1.3.6.1.4.1.9797.1.5.2.5</i>
Type	Integer
Access	Read
Format	x [°C] (40 = 40°C)

upsInfoInternalTemperature2

Temperature of internal functional blocks.

OID	<i>.iso.org.dod.internet.private.enterprises.ever.upsEver.komVFI33.upsVFI33UpsInformation.upsInfoInternalTemperature2</i>
	<i>.1.3.6.1.4.1.9797.1.5.2.6</i>
Type	Integer
Access	Read
Format	x [°C] (40 = 40°C)

upsInfoInternalTemperature3

Temperature of internal functional blocks.

OID	<i>.iso.org.dod.internet.private.enterprises.ever.upsEver.komVFI33.upsVFI33UpsInformation.upsInfoInternalTemperature3</i>
	<i>.1.3.6.1.4.1.9797.1.5.2.7</i>
Type	Integer
Access	Read
Format	x [°C] (40 = 40°C)

upsInfoPositiveBatteryVoltage

Battery voltage - positive string.

OID	<i>.iso.org.dod.internet.private.enterprises.ever.upsEver.komVFI33.upsVFI33Up sInformation.upsInfoPositiveBatteryVoltage</i>
	<i>.1.3.6.1.4.1.9797.1.5.2.8</i>
Type	Integer
Access	Read
Format	x [V] (431 = 431 V)

upsInfoNegativeBatteryVoltage

Battery voltage - negative string.

OID	<i>.iso.org.dod.internet.private.enterprises.ever.upsEver.komVFI33.upsVFI33Up sInformation.upsInfoNegativeBatteryVoltage</i>
	<i>.1.3.6.1.4.1.9797.1.5.2.9</i>
Type	Integer
Access	Read
Format	x [V] (431 = 431 V)

upsInfoPositiveBatteryCurrent

Battery current (absolute value for charging or discharging) - positive string.

OID	<i>.iso.org.dod.internet.private.enterprises.ever.upsEver.komVFI33.upsVFI33Up sInformation.upsInfoPositiveBatteryCurrent</i>
	<i>.1.3.6.1.4.1.9797.1.5.2.10</i>
Type	Integer
Access	Read
Format	x*0.1 [A] (72 = 7.2 A)

upsInfoNegativeBatteryCurrent

Battery current (absolute value for charging or discharging) - negative string.

OID	<i>.iso.org.dod.internet.private.enterprises.ever.upsEver.komVFI33.upsVFI33Up sInformation.upsInfoNegativeBatteryCurrent</i>
	<i>.1.3.6.1.4.1.9797.1.5.2.11</i>
Type	Integer
Access	Read
Format	x*0.1 [A] (72 = 7.2 A)

upsInfoAvailableBatteryCapacity

Battery charge level.

OID	<i>.iso.org.dod.internet.private.enterprises.ever.upsEver.komVFI33.upsVFI33Up sInformation.upsInfoAvailableBatteryCapacity</i>
	<i>.1.3.6.1.4.1.9797.1.5.2.12</i>
Type	Integer
Access	Read
Format	x [%] (97 = 97%)

upsInfoAutonomyTime

Estimated time for back-up operation (for the current output load).

OID	<i>.iso.org.dod.internet.private.enterprises.ever.upsEver.komVFI33.upsVFI33Up sInformation.upsInfoAutonomyTime</i>
	<i>.1.3.6.1.4.1.9797.1.5.2.13</i>
Type	Integer
Access	Read
Format	x [min] (243 = 243 min)

upsInfoBatteryCondition

Battery condition (updated after performing a battery test).

OID	<i>.iso.org.dod.internet.private.enterprises.ever.upsEver.komVFI33.upsVFI33Up sInformation.upsInfoBatteryCondition</i>
	<i>.1.3.6.1.4.1.9797.1.5.2.14</i>
Type	Integer
Access	Read
Format	x [%] (85 = 85%)

upsInfoAmbientTemperature

Ambient temperature (external).

OID	<i>.iso.org.dod.internet.private.enterprises.ever.upsEver.komVFI33.upsVFI33Up sInformation.upsInfoAmbientTemperature</i>
	<i>.1.3.6.1.4.1.9797.1.5.2.15</i>
Type	Integer
Access	Read
Format	x [°C] (21 = 21°C)

upsInfoRelativeHumidity

Relative Humidity (external).

OID	<i>.iso.org.dod.internet.private.enterprises.ever.upsEver.komVFI33.upsVFI33Up sInformation.upsInfoRelativeHumidity</i>
	<i>.1.3.6.1.4.1.9797.1.5.2.16</i>
Type	Integer
Access	Read
Format	x [%] (33 = 33%)

upsInfoWarningsAndInformations2Raw

Information and warnings in UPS protocol format (raw).

OID	<i>.iso.org.dod.internet.private.enterprises.ever.upsEver.komVFI33.upsVFI33Up sInformation.upsInfoWarningsAndInformations2Raw</i>
	<i>.1.3.6.1.4.1.9797.1.5.2.17</i>
Type	Integer
Access	Read
Format	-

To determine what informational and warning messages are reported by the UPS, perform the following steps:

- Read the OID value of **upsInfoWarningsAndInformations2Raw**
upsInfoWarningsAndInformations2Raw.0 5
- Convert the read value to a binary system
5 = 0000 0000 0000 0101
bit 15^ ^bit 0
All bits set to high (1) mean that the associated information/warning message is active.
In the example above, bits 2 and 0 are set.
- From the table below, read the information/warning messages reported by the UPS

Bit	Warning/Information
0	Master
1	Slave
2	LCD display failure
3	Unit stopped
4	Redundancy lost
5	Unit inactive
6	Not enough units
7	Dynamic reactive power compensation active
8	<i>Unused</i>
9	
10	
11	
12	
13	
14	
15	

OID ***upsInfoWarningsAndInformations2Raw*** with value 5 (bits 2 and 0 set) means information/warnings: “**LCD display failure**” and “**Master**”.

upsVFI33Input branch

UPS input parameters – mains line.

upsInputVoltageL1

Input voltage - mains line - phase L1.

OID	<i>.iso.org.dod.internet.private.enterprises.ever.upsEver.komVFI33.upsVFI33Input.upsInputVoltageL1</i>
	<i>.1.3.6.1.4.1.9797.1.5.3.1</i>
Type	Integer
Access	Read
Format	x [V] (234 = 234 V)

upsInputVoltageL2

Input voltage - mains line - phase L2.

OID	<i>.iso.org.dod.internet.private.enterprises.ever.upsEver.komVFI33.upsVFI33Input.upsInputVoltageL2</i>
	<i>.1.3.6.1.4.1.9797.1.5.3.2</i>
Type	Integer
Access	Read
Format	x [V] (234 = 234 V)

upsInputVoltageL3

Input voltage - mains line - phase L3.

OID	<i>.iso.org.dod.internet.private.enterprises.ever.upsEver.komVFI33.upsVFI33Input.upsInputVoltageL3</i>
	<i>.1.3.6.1.4.1.9797.1.5.3.3</i>
Type	Integer
Access	Read
Format	x [V] (234 = 234 V)

upsInputCurrentL1

Input current - mains line - phase L1.

OID	<i>.iso.org.dod.internet.private.enterprises.ever.upsEver.komVFI33.upsVFI33Input.upsInputCurrentL1</i>
	<i>.1.3.6.1.4.1.9797.1.5.3.4</i>
Type	Integer
Access	Read
Format	x*0.1 [A] (72 = 7.2 A)

upsInputCurrentL2

Input current - mains line - phase L2.

OID	<i>.iso.org.dod.internet.private.enterprises.ever.upsEver.komVFI33.upsVFI33Input.upsInputCurrentL2</i>
	<i>.1.3.6.1.4.1.9797.1.5.3.5</i>
Type	Integer
Access	Read
Format	x*0.1 [A] (72 = 7.2 A)

upsInputCurrentL3

Input current - mains line - phase L3.

OID	<i>.iso.org.dod.internet.private.enterprises.ever.upsEver.komVFI33.upsVFI33Input.upsInputCurrentL3</i>
	<i>.1.3.6.1.4.1.9797.1.5.3.6</i>
Type	Integer
Access	Read
Format	x*0.1 [A] (72 = 7.2 A)

upsInputActivePowerL1

Mains line active power - phase L1.

OID	<i>.iso.org.dod.internet.private.enterprises.ever.upsEver.komVFI33.upsVFI33Input.upsInputActivePowerL1</i>
	<i>.1.3.6.1.4.1.9797.1.5.3.7</i>
Type	Integer
Access	Read
Format	x*0.1 [kW] (18 = 1.8 kW)

upsInputActivePowerL2

Mains line active power - phase L2.

OID	<i>.iso.org.dod.internet.private.enterprises.ever.upsEver.komVFI33.upsVFI33Inp</i>
	<i>ut.upsInputActivePowerL2</i> <i>.1.3.6.1.4.1.9797.1.5.3.8</i>
Type	Integer
Access	Read
Format	x*0.1 [kW] (18 = 1.8 kW)

upsInputActivePowerL3

Mains line active power - phase L3.

OID	<i>.iso.org.dod.internet.private.enterprises.ever.upsEver.komVFI33.upsVFI33Inp</i>
	<i>ut.upsInputActivePowerL3</i> <i>.1.3.6.1.4.1.9797.1.5.3.9</i>
Type	Integer
Access	Read
Format	x*0.1 [kW] (18 = 1.8 kW)

upsInputApparentPowerL1

Mains line apparent power - phase L1.

OID	<i>.iso.org.dod.internet.private.enterprises.ever.upsEver.komVFI33.upsVFI33Inp</i>
	<i>ut.upsInputApparentPowerL1</i> <i>.1.3.6.1.4.1.9797.1.5.3.10</i>
Type	Integer
Access	Read
Format	x*0.1 [kVA] (18 = 1.8 kVA)

upsInputApparentPowerL2

Mains line apparent power - phase L2.

OID	<i>.iso.org.dod.internet.private.enterprises.ever.upsEver.komVFI33.upsVFI33Inp</i>
	<i>ut.upsInputApparentPowerL2</i> <i>.1.3.6.1.4.1.9797.1.5.3.11</i>
Type	Integer
Access	Read
Format	x*0.1 [kVA] (18 = 1.8 kVA)

upsInputApparentPowerL3

Mains line apparent power - phase L3.

OID	<i>.iso.org.dod.internet.private.enterprises.ever.upsEver.komVFI33.upsVFI33Input.upsInputApparentPowerL3</i>
	<i>.1.3.6.1.4.1.9797.1.5.3.12</i>
Type	Integer
Access	Read
Format	x*0.1 [kVA] (18 = 1.8 kVA)

upsInputPowerFactorL1

Mains line power factor - phase L1.

OID	<i>.iso.org.dod.internet.private.enterprises.ever.upsEver.komVFI33.upsVFI33Input.upsInputPowerFactorL1</i>
	<i>.1.3.6.1.4.1.9797.1.5.3.13</i>
Type	Integer
Access	Read
Format	x*0.01 [-] (94 = 0.94)

upsInputPowerFactorL2

Mains line power factor - phase L2.

OID	<i>.iso.org.dod.internet.private.enterprises.ever.upsEver.komVFI33.upsVFI33Input.upsInputPowerFactorL2</i>
	<i>.1.3.6.1.4.1.9797.1.5.3.14</i>
Type	Integer
Access	Read
Format	x*0.01 [-] (94 = 0.94)

upsInputPowerFactorL3

Mains line power factor - phase L3.

OID	<i>.iso.org.dod.internet.private.enterprises.ever.upsEver.komVFI33.upsVFI33Input.upsInputPowerFactorL3</i>
	<i>.1.3.6.1.4.1.9797.1.5.3.15</i>
Type	Integer
Access	Read
Format	x*0.01 [-] (94 = 0.94)

upsInputFrequency

Mains line frequency.

OID	<i>.iso.org.dod.internet.private.enterprises.ever.upsEver.komVFI33.upsVFI33Input.upsInputFrequency</i>
	<i>.1.3.6.1.4.1.9797.1.5.3.16</i>
Type	Integer
Access	Read
Format	x*0.1 [Hz] (501 = 50.1 Hz)

upsVFI33Bypass branch

UPS input parameters – bypass line.

upsBypassVoltageL1

Input voltage - bypass line - phase L1.

OID	<i>.iso.org.dod.internet.private.enterprises.ever.upsEver.komVFI33.upsVFI33Bypass.upsBypassVoltageL1</i>
	<i>.1.3.6.1.4.1.9797.1.5.4.1</i>
Type	Integer
Access	Read
Format	x [V] (234 = 234 V)

upsBypassVoltageL2

Input voltage - bypass line - phase L2.

OID	<i>.iso.org.dod.internet.private.enterprises.ever.upsEver.komVFI33.upsVFI33Bypass.upsBypassVoltageL2</i>
	<i>.1.3.6.1.4.1.9797.1.5.4.2</i>
Type	Integer
Access	Read
Format	x [V] (234 = 234 V)

upsBypassVoltageL3

Input voltage - bypass line - phase L3.

OID	<i>.iso.org.dod.internet.private.enterprises.ever.upsEver.komVFI33.upsVFI33Bypass.upsBypassVoltageL3</i>
	<i>.1.3.6.1.4.1.9797.1.5.4.3</i>
Type	Integer
Access	Read
Format	x [V] (234 = 234 V)

upsBypassCurrentL1

Input current - bypass line - phase L1.

OID	<i>.iso.org.dod.internet.private.enterprises.ever.upsEver.komVFI33.upsVFI33Bypass.upsBypassCurrentL1</i>
	<i>.1.3.6.1.4.1.9797.1.5.4.4</i>
Type	Integer
Access	Read
Format	x*0.1 [A] (72 = 7.2 A)

upsBypassCurrentL2

Input current - bypass line - phase L2.

OID	<i>.iso.org.dod.internet.private.enterprises.ever.upsEver.komVFI33.upsVFI33Bypass.upsBypassCurrentL2</i>
	<i>.1.3.6.1.4.1.9797.1.5.4.5</i>
Type	Integer
Access	Read
Format	x*0.1 [A] (72 = 7.2 A)

upsBypassCurrentL3

Input current - bypass line - phase L3.

OID	<i>.iso.org.dod.internet.private.enterprises.ever.upsEver.komVFI33.upsVFI33Bypass.upsBypassCurrentL3</i>
	<i>.1.3.6.1.4.1.9797.1.5.4.6</i>
Type	Integer
Access	Read
Format	x*0.1 [A] (72 = 7.2 A)

upsBypassActivePowerL1

Bypass line active power - phase L1.

OID	<i>.iso.org.dod.internet.private.enterprises.ever.upsEver.komVFI33.upsVFI33Bypass.upsBypassActivePowerL1</i>
	<i>.1.3.6.1.4.1.9797.1.5.4.7</i>
Type	Integer
Access	Read
Format	x*0.1 [kW] (18 = 1.8 kW)

upsBypassActivePowerL2

Bypass line active power - phase L2.

OID	<i>.iso.org.dod.internet.private.enterprises.ever.upsEver.komVFI33.upsVFI33Bypass.upsBypassActivePowerL2</i>
	<i>.1.3.6.1.4.1.9797.1.5.4.8</i>
Type	Integer
Access	Read
Format	x*0.1 [kW] (18 = 1.8 kW)

upsBypassActivePowerL3

Bypass line active power - phase L3.

OID	<i>.iso.org.dod.internet.private.enterprises.ever.upsEver.komVFI33.upsVFI33Bypass.upsBypassActivePowerL3</i>
	<i>.1.3.6.1.4.1.9797.1.5.4.9</i>
Type	Integer
Access	Read
Format	x*0.1 [kW] (18 = 1.8 kW)

upsBypassApparentPowerL1

Bypass line apparent power - phase L1.

OID	<i>.iso.org.dod.internet.private.enterprises.ever.upsEver.komVFI33.upsVFI33Bypass.upsBypassApparentPowerL1</i>
	<i>.1.3.6.1.4.1.9797.1.5.4.10</i>
Type	Integer
Access	Read
Format	x*0.1 [kVA] (18 = 1.8 kVA)

upsBypassApparentPowerL2

Bypass line apparent power - phase L2.

OID	<i>.iso.org.dod.internet.private.enterprises.ever.upsEver.komVFI33.upsVFI33Bypass.upsBypassApparentPowerL2</i>
	<i>.1.3.6.1.4.1.9797.1.5.4.11</i>
Type	Integer
Access	Read
Format	x*0.1 [kVA] (18 = 1.8 kVA)

upsBypassApparentPowerL3

Bypass line apparent power - phase L3.

OID	<i>.iso.org.dod.internet.private.enterprises.ever.upsEver.komVFI33.upsVFI33Bypass.upsBypassApparentPowerL3</i>
	<i>.1.3.6.1.4.1.9797.1.5.4.12</i>
Type	Integer
Access	Read
Format	x*0.1 [kVA] (18 = 1.8 kVA)

upsBypassPowerFactorL1

Bypass line power factor - phase L1.

OID	<i>.iso.org.dod.internet.private.enterprises.ever.upsEver.komVFI33.upsVFI33Bypass.upsBypassPowerFactorL1</i>
	<i>.1.3.6.1.4.1.9797.1.5.4.13</i>
Type	Integer
Access	Read
Format	x*0.01 [-] (94 = 0.94)

upsBypassPowerFactorL2

Bypass line power factor - phase L2.

OID	<i>.iso.org.dod.internet.private.enterprises.ever.upsEver.komVFI33.upsVFI33Bypass.upsBypassPowerFactorL2</i>
	<i>.1.3.6.1.4.1.9797.1.5.4.14</i>
Type	Integer
Access	Read
Format	x*0.01 [-] (94 = 0.94)

upsBypassPowerFactorL3

Bypass line power factor - phase L3.

OID	<i>.iso.org.dod.internet.private.enterprises.ever.upsEver.komVFI33.upsVFI33Bypass.upsBypassPowerFactorL3</i>
	<i>.1.3.6.1.4.1.9797.1.5.4.15</i>
Type	Integer
Access	Read
Format	x*0.01 [-] (94 = 0.94)

upsBypassFrequency

Bypass line frequency.

OID	<i>.iso.org.dod.internet.private.enterprises.ever.upsEver.komVFI33.upsVFI33Bypass.upsBypassFrequency</i>
	<i>.1.3.6.1.4.1.9797.1.5.4.16</i>
Type	Integer
Access	Read
Format	x*0.1 [Hz] (501 = 50.1 Hz)

upsVFI33Output branch

UPS output parameters.

upsOutputVoltageL1

UPS output voltage - phase L1.

OID	<i>.iso.org.dod.internet.private.enterprises.ever.upsEver.komVFI33.upsVFI33Output.upsOutputVoltageL1</i>
	<i>.1.3.6.1.4.1.9797.1.5.5.1</i>
Type	Integer
Access	Read
Format	x [V] (234 = 234 V)

upsOutputVoltageL2

UPS output voltage - phase L2.

OID	<i>.iso.org.dod.internet.private.enterprises.ever.upsEver.komVFI33.upsVFI33Output.upsOutputVoltageL2</i>
	<i>.1.3.6.1.4.1.9797.1.5.5.2</i>
Type	Integer
Access	Read
Format	x [V] (234 = 234 V)

upsOutputVoltageL3

UPS output voltage - phase L3.

OID	<i>.iso.org.dod.internet.private.enterprises.ever.upsEver.komVFI33.upsVFI33Output.upsOutputVoltageL3</i>
	<i>.1.3.6.1.4.1.9797.1.5.5.3</i>
Type	Integer
Access	Read
Format	x [V] (234 = 234 V)

upsOutputCurrentL1

UPS output current - phase L1.

OID	<i>.iso.org.dod.internet.private.enterprises.ever.upsEver.komVFI33.upsVFI33Output.upsOutputCurrentL1</i>
	<i>.1.3.6.1.4.1.9797.1.5.5.4</i>
Type	Integer
Access	Read
Format	x*0.1 [A] (72 = 7.2 A)

upsOutputCurrentL2

UPS output current - phase L2.

OID	<i>.iso.org.dod.internet.private.enterprises.ever.upsEver.komVFI33.upsVFI33Output.upsOutputCurrentL2</i>
	<i>.1.3.6.1.4.1.9797.1.5.5.5</i>
Type	Integer
Access	Read
Format	x*0.1 [A] (72 = 7.2 A)

upsOutputCurrentL3

UPS output current - phase L3.

OID	<i>.iso.org.dod.internet.private.enterprises.ever.upsEver.komVFI33.upsVFI33Output.upsOutputCurrentL3</i>
	<i>.1.3.6.1.4.1.9797.1.5.5.6</i>
Type	Integer
Access	Read
Format	x*0.1 [A] (72 = 7.2 A)

upsOutputActivePowerL1

UPS output active power - phase L1.

OID	<i>.iso.org.dod.internet.private.enterprises.ever.upsEver.komVFI33.upsVFI33Output.upsOutputActivePowerL1</i>
	<i>.1.3.6.1.4.1.9797.1.5.5.7</i>
Type	Integer
Access	Read
Format	x*0.1 [kW] (18 = 1.8 kW)

upsOutputActivePowerL2

UPS output active power - phase L2.

OID	<i>.iso.org.dod.internet.private.enterprises.ever.upsEver.komVFI33.upsVFI33Output.upsOutputActivePowerL2</i>
	<i>.1.3.6.1.4.1.9797.1.5.5.8</i>
Type	Integer
Access	Read
Format	x*0.1 [kW] (18 = 1.8 kW)

upsOutputActivePowerL3

UPS output active power - phase L3.

OID	<i>.iso.org.dod.internet.private.enterprises.ever.upsEver.komVFI33.upsVFI33Output.upsOutputActivePowerL3</i>
	<i>.1.3.6.1.4.1.9797.1.5.5.9</i>
Type	Integer
Access	Read
Format	x*0.1 [kW] (18 = 1.8 kW)

upsOutputApparentPowerL1

UPS output apparent power - phase L1.

OID	<i>.iso.org.dod.internet.private.enterprises.ever.upsEver.komVFI33.upsVFI33Output.upsOutputApparentPowerL1</i>
	<i>.1.3.6.1.4.1.9797.1.5.5.10</i>
Type	Integer
Access	Read
Format	x*0.1 [kVA] (18 = 1.8 kVA)

upsOutputApparentPowerL2

UPS output apparent power - phase L2.

OID	<i>.iso.org.dod.internet.private.enterprises.ever.upsEver.komVFI33.upsVFI33Output.upsOutputApparentPowerL2</i>
	<i>.1.3.6.1.4.1.9797.1.5.5.11</i>
Type	Integer
Access	Read
Format	x*0.1 [kVA] (18 = 1.8 kVA)

upsOutputApparentPowerL3

UPS output apparent power - phase L3.

OID	<i>.iso.org.dod.internet.private.enterprises.ever.upsEver.komVFI33.upsVFI33Ou</i> <i>tput.upsOutputApparentPowerL3</i>
	<i>.1.3.6.1.4.1.9797.1.5.5.12</i>
Type	Integer
Access	Read
Format	x*0.1 [kVA] (18 = 1.8 kVA)

upsOutputPowerFactorL1

UPS output power factor - phase L1.

OID	<i>.iso.org.dod.internet.private.enterprises.ever.upsEver.komVFI33.upsVFI33Ou</i> <i>tput.upsOutputPowerFactorL1</i>
	<i>.1.3.6.1.4.1.9797.1.5.5.13</i>
Type	Integer
Access	Read
Format	x*0.01 [-] (94 = 0.94)

upsOutputPowerFactorL2

UPS output power factor - phase L2.

OID	<i>.iso.org.dod.internet.private.enterprises.ever.upsEver.komVFI33.upsVFI33Ou</i> <i>tput.upsOutputPowerFactorL2</i>
	<i>.1.3.6.1.4.1.9797.1.5.5.14</i>
Type	Integer
Access	Read
Format	x*0.01 [-] (94 = 0.94)

upsOutputPowerFactorL3

UPS output power factor - phase L3.

OID	<i>.iso.org.dod.internet.private.enterprises.ever.upsEver.komVFI33.upsVFI33Ou</i> <i>tput.upsOutputPowerFactorL3</i>
	<i>.1.3.6.1.4.1.9797.1.5.5.15</i>
Type	Integer
Access	Read
Format	x*0.01 [-] (94 = 0.94)

upsOutputPercentLoadL1

UPS output load - phase L1.

OID	<i>.iso.org.dod.internet.private.enterprises.ever.upsEver.komVFI33.upsVFI33Output.upsOutputPercentLoadL1</i>
	<i>.1.3.6.1.4.1.9797.1.5.5.16</i>
Type	Integer
Access	Read
Format	x [%] (33 = 33%)

upsOutputPercentLoadL2

UPS output load - phase L2.

OID	<i>.iso.org.dod.internet.private.enterprises.ever.upsEver.komVFI33.upsVFI33Output.upsOutputPercentLoadL2</i>
	<i>.1.3.6.1.4.1.9797.1.5.5.17</i>
Type	Integer
Access	Read
Format	x [%] (33 = 33%)

upsOutputPercentLoadL3

UPS output load - phase L3.

OID	<i>.iso.org.dod.internet.private.enterprises.ever.upsEver.komVFI33.upsVFI33Output.upsOutputPercentLoadL3</i>
	<i>.1.3.6.1.4.1.9797.1.5.5.18</i>
Type	Integer
Access	Read
Format	x [%] (33 = 33%)

upsOutputFrequency

UPS output frequency.

OID	<i>.iso.org.dod.internet.private.enterprises.ever.upsEver.komVFI33.upsVFI33Output.upsOutputFrequency</i>
	<i>.1.3.6.1.4.1.9797.1.5.5.19</i>
Type	Integer
Access	Read
Format	x*0.1 [Hz] (501 = 50.1 Hz)

upsVFI33Configuration branch

UPS configuration parameters.

Warning! Configuration parameters are saved in the UPS with a few seconds delay (saved settings are sent to the card via SNMP, the card sends the settings to the UPS, and the UPS communicates internally with the functional blocks by sending the changed values to the appropriate modules). For this reason, after saving the configuration, reading it again may return the previous values for some time.

Warning! Some settings may not be available in some UPS configurations. In this case, the saved parameter value will be rejected by the UPS (the value will not be changed).

upsConfigControlRaw

UPS operation control - values in UPS protocol format (raw).

OID	.iso.org.dod.internet.private.enterprises.ever.upsEver.komVFI33.upsVFI33Configuration.upsConfigControlRaw
	.1.3.6.1.4.1.9797.1.5.6.1
Type	Integer
Access	Read/Write
Format	-

To read the status of the UPS operation control parameters, perform the following steps:

- Read the OID value of **upsConfigControlRaw**
upsConfigControlRaw.0 2053
- Convert the read value to a binary system
2053 = 0000 1000 0000 0101
bit 15^ ^bit 0
All set bits (1) mean that the UPS operation control parameters assigned to them are active. In the example above, bits 11, 2 and 0 are set.
- The table below presents the parameters of the UPS operation control with bit numbers.

Bit	UPS operation control function	Description
0	Sound signaling	Activating/deactivating acoustic signalling (alarm states are signalled always) <i>1 – enable/0 – disable</i>
1	Bypass mode forcing	Manual forcing of the bypass mode <i>1 – enable/0 – disable</i>
2	UPS ON	Turn on or off UPS (functional) <i>1 – UPS enabled/0 – UPS in STOP mode</i>
3	Standby mode forcing	Forcing the STANDBY mode manually <i>1 – enable/0 – disable</i>
4	Keyboard lock	Forcing the lock of the device's keyboard <i>1 – enable/0 – disable</i>
5	Battery test enable	Permission to update the battery status indicator (<i>upsInfoBatteryCondition</i>) after the batteries are fully discharged. After discharge, this function is automatically turned off. Write: <i>1 – enable</i> Read: <i>1 – enabled/0 – disabled (completed)</i>
6	EPO ON	Forcing the EPO function trigger (operation identical to the electric opening of the EPO circuit) Write: <i>1 – forced EPO trigger</i> Read: <i>set to "0" by UPS</i>
7	Rectifier fault clear	Clearing the EMERGENCY mode for the rectifier module Write: <i>1 – clear rectifier fault</i> Read: <i>set to "0" by UPS</i>
8	Inverter fault clear	Clearing the EMERGENCY mode for the inverter module Write: <i>1 – clear inverter fault</i> Read: <i>set to "0" by UPS</i>
9	ECO mode ON	Enable High Efficiency Mode (ECO) <i>1 – enable/0 – disable</i>
10	Temporary EPO function deactivation	Temporary (1 min.) deactivation of the EPO input Write: <i>1 – temporary deactivation of EPO input</i> Read: <i>1 – input inactive/0 – input active (normal state)</i>
11	Bypass check	Activating/deactivating the bypass line check; the parameter is automatically activated when configuring the UPS to operate in the ECO mode; the bypass line check only works when the UPS is switched on <i>1 – enable/0 – disable</i>
12-15	Unused	-

OID ***upsConfigControlRaw*** with value 2053 (bits 11, 2 and 0 are set) means that the UPS operation control functions are active: “**Bypass check**” is enabled, “**UPS ON**” is in ON state and “**Sound signaling**” is enabled.

To change the value of the selected UPS operation control function, perform the following steps:

- Read the OID value of ***upsConfigControlRaw***
- Modify the value of the selected function
- Write updated value to OID ***upsConfigControlRaw***

For example, to enable the ECO function in the UPS (based on the reading example above), proceed as follows:

- Read the OID value of **upsConfigControlRaw**
upsConfigControlRaw.0 2053
- Convert the read value to a binary system
2053 = 0000 1000 0000 0101
bit 15^ ^bit 0
- The "ECO mode ON" function has bit No. 9 and to be enabled this bit must be set (1). Currently, this bit is 0 (marked yellow above). So we change the binary value:
"0000 1000 0000 0101"
bit 9^ ^bit 0
to:
"0000 1010 0000 0101"
bit 9^ ^bit 0
and convert it to the decimal system - the new value is **2565**.
- Write a new value **2565** to OID **upsConfigControlRaw** – the "ECO mode ON" function will be enabled if the current UPS configuration parameters allow it.

upsConfigOutputVoltageL1

UPS output voltage setting (only for inverter modes) - phase L1.

OID	.iso.org.dod.internet.private.enterprises.ever.upsEver.komVFI33.upsVFI33Configuration.upsConfigOutputVoltageL1
	.1.3.6.1.4.1.9797.1.5.6.2
Type	Integer
Access	Read/Write
Format	x [V] (230 = 230 V)

upsConfigOutputVoltageL2

UPS output voltage setting (only for inverter modes) - phase L2.

OID	.iso.org.dod.internet.private.enterprises.ever.upsEver.komVFI33.upsVFI33Configuration.upsConfigOutputVoltageL2
	.1.3.6.1.4.1.9797.1.5.6.3
Type	Integer
Access	Read/Write
Format	x [V] (230 = 230 V)

upsConfigOutputVoltageL3

UPS output voltage setting (only for inverter modes) - phase L3.

OID	<i>.iso.org.dod.internet.private.enterprises.ever.upsEver.komVFI33.upsVFI33Configuration.upsConfigOutputVoltageL3</i>
	<i>.1.3.6.1.4.1.9797.1.5.6.4</i>
Type	Integer
Access	Read/Write
Format	x [V] (230 = 230 V)

upsConfigMaximumBypassVoltage

Maximum value of the output voltage for Bypass and ECO operating modes.

OID	<i>.iso.org.dod.internet.private.enterprises.ever.upsEver.komVFI33.upsVFI33Configuration.upsConfigMaximumBypassVoltage</i>
	<i>.1.3.6.1.4.1.9797.1.5.6.5</i>
Type	Integer
Access	Read/Write
Format	x [V] (260 = 260 V)

upsConfigMinimumBypassVoltage

Minimum value of the output voltage for Bypass and ECO operating modes.

OID	<i>.iso.org.dod.internet.private.enterprises.ever.upsEver.komVFI33.upsVFI33Configuration.upsConfigMinimumBypassVoltage</i>
	<i>.1.3.6.1.4.1.9797.1.5.6.6</i>
Type	Integer
Access	Read/Write
Format	x [V] (200 = 200 V)

upsConfigMaximumBypassFrequency

Maximum value of the output frequency (all operating modes with powered output).

OID	<i>.iso.org.dod.internet.private.enterprises.ever.upsEver.komVFI33.upsVFI33Configuration.upsConfigMaximumBypassFrequency</i>
	<i>.1.3.6.1.4.1.9797.1.5.6.7</i>
Type	Integer
Access	Read/Write
Format	x [Hz] (55 = 55 Hz)

upsConfigMinimumBypassFrequency

Minimum value of the output frequency (all operating modes with powered output).

OID	<i>.iso.org.dod.internet.private.enterprises.ever.upsEver.komVFI33.upsVFI33Configuration.upsConfigMinimumBypassFrequency</i>
	<i>.1.3.6.1.4.1.9797.1.5.6.8</i>
Type	Integer
Access	Read/Write
Format	x [Hz] (45 = 45 Hz)

upsConfigDelayBeforeStandby

Delay before standby operating mode (from the receipt of the **upsConfigControlRaw:StandbyModeForcing** command to its execution).

OID	<i>.iso.org.dod.internet.private.enterprises.ever.upsEver.komVFI33.upsVFI33Configuration.upsConfigDelayBeforeStandby</i>
	<i>.1.3.6.1.4.1.9797.1.5.6.9</i>
Type	Integer
Access	Read/Write
Format	x [s] (180 = 180 s)

upsConfigMinimumBatteryChargeLevel

The minimum battery charge level to exit standby mode when mains power is restored.

OID	<i>.iso.org.dod.internet.private.enterprises.ever.upsEver.komVFI33.upsVFI33Configuration.upsConfigMinimumBatteryChargeLevel</i>
	<i>.1.3.6.1.4.1.9797.1.5.6.10</i>
Type	Integer
Access	Read/Write
Format	x [%] (33 = 33%)

upsConfigOutputOverloadClearThreshold

Output load threshold below which the overload is canceled.

OID	<i>.iso.org.dod.internet.private.enterprises.ever.upsEver.komVFI33.upsVFI33Configuration.upsConfigOutputOverloadClearThreshold</i>
	<i>.1.3.6.1.4.1.9797.1.5.6.11</i>
Type	Integer
Access	Read/Write
Format	x [%] (95 = 95%)

upsConfigBatteryCapacity

Capacity of one battery from which the entire UPS battery was created (if 7Ah batteries were used for the assembly, enter the value “7”).

OID	<i>.iso.org.dod.internet.private.enterprises.ever.upsEver.komVFI33.upsVFI33Configuration.upsConfigBatteryCapacity</i>
	<i>.1.3.6.1.4.1.9797.1.5.6.12</i>
Type	Integer
Access	Read/Write
Format	x [Ah] (7 = 7 Ah)

upsConfigNumberOfParalleledBatteryStrings

Number of parallel sections (if the UPS requires 2x32 batteries, we treat it as one section).

OID	<i>.iso.org.dod.internet.private.enterprises.ever.upsEver.komVFI33.upsVFI33Configuration.upsConfigNumberOfParalleledBatteryStrings</i>
	<i>.1.3.6.1.4.1.9797.1.5.6.13</i>
Type	Integer
Access	Read/Write
Format	x [Ah] (7 = 7 Ah)

upsConfigBatteryChargingCurrent

Total charging current of all sections - if the UPS has 4 sections of 2x32 batteries and the current is set to 8 A, each battery (single) will be charged with 2 A.

OID	<i>.iso.org.dod.internet.private.enterprises.ever.upsEver.komVFI33.upsVFI33Configuration.upsConfigBatteryChargingCurrent</i>
	<i>.1.3.6.1.4.1.9797.1.5.6.14</i>
Type	Integer
Access	Read/Write
Format	x*0.1 [A] (80 = 8.0 A)

upsConfigUnitAddressInParallelOperation

UPS address in parallel or redundant system. If the UPS works as an independent device, set the parameter to “0”.

OID	<i>.iso.org.dod.internet.private.enterprises.ever.upsEver.komVFI33.upsVFI33Configuration.upsConfigUnitAddressInParallelOperation</i>
	<i>.1.3.6.1.4.1.9797.1.5.6.15</i>
Type	Integer
Access	Read/Write
Format	x [-] (0 = 0)

upsConfigMinUnitsInParallelOperation

The minimum required number of units for parallel operation (necessary to provide the required output power). If there are more units in the system, the system works in parallel mode with redundancy.

OID	<i>.iso.org.dod.internet.private.enterprises.ever.upsEver.komVFI33.upsVFI33Configuration.upsConfigMinUnitsInParallelOperation</i>
	<i>.1.3.6.1.4.1.9797.1.5.6.16</i>
Type	Integer
Access	Read/Write
Format	x [-] (1 = 1)

upsConfigModbusAddress

UPS address in the MODBUS network (only when the UPS communication protocol is MODBUS).

OID	<i>.iso.org.dod.internet.private.enterprises.ever.upsEver.komVFI33.upsVFI33Configuration.upsConfigModbusAddress</i>
	<i>.1.3.6.1.4.1.9797.1.5.6.17</i>
Type	Integer
Access	Read/Write
Format	x [-] (1 = 1)

upsConfigRemainingAutonomyTimeForLowBattery

Autonomy time (*upsInfoAutonomyTime*) below which the UPS indicates low battery level.

OID	<i>.iso.org.dod.internet.private.enterprises.ever.upsEver.komVFI33.upsVFI33Configuration.upsConfigRemainingAutonomyTimeForLowBattery</i>
	<i>.1.3.6.1.4.1.9797.1.5.6.18</i>
Type	Integer
Access	Read/Write
Format	x [s] (600 = 600 s)

upsVFI33Statistics branch

UPS operation statistics (counters for duration and occurrence of selected events).

upsStatisticsMainsFailsCounter

Mains fails counter.

OID	<i>.iso.org.dod.internet.private.enterprises.ever.upsEver.komVFI33.upsVFI33Statistics.upsStatisticsMainsFailsCounter</i>
	<i>.1.3.6.1.4.1.9797.1.5.7.1</i>
Type	Integer
Access	Read
Format	x [-] (11 = 11)

upsStatisticsOutputOverloadCounter

Output overload counter.

OID	<i>.iso.org.dod.internet.private.enterprises.ever.upsEver.komVFI33.upsVFI33Statistics.upsStatisticsOutputOverloadCounter</i>
	<i>.1.3.6.1.4.1.9797.1.5.7.2</i>
Type	Integer
Access	Read
Format	x [-] (11 = 11)

upsStatisticsOutputShortCircuitCounter

Output short circuit counter.

OID	<i>.iso.org.dod.internet.private.enterprises.ever.upsEver.komVFI33.upsVFI33Statistics.upsStatisticsOutputShortCircuitCounter</i>
	<i>.1.3.6.1.4.1.9797.1.5.7.3</i>
Type	Integer
Access	Read
Format	x [-] (11 = 11)

upsStatisticsDischargeCounter

Discharge counter.

OID	<i>.iso.org.dod.internet.private.enterprises.ever.upsEver.komVFI33.upsVFI33Statistics.upsStatisticsDischargeCounter</i>
	<i>.1.3.6.1.4.1.9797.1.5.7.4</i>
Type	Integer
Access	Read
Format	x [-] (11 = 11)

upsStatisticsRectifierOverTemperatureCounter

Rectifier over temperature counter.

OID	<i>.iso.org.dod.internet.private.enterprises.ever.upsEver.komVFI33.upsVFI33Statistics.upsStatisticsRectifierOverTemperatureCounter</i>
	<i>.1.3.6.1.4.1.9797.1.5.7.5</i>
Type	Integer
Access	Read
Format	x [-] (11 = 11)

upsStatisticsInverterOverTemperatureCounter

Inverter over temperature counter.

OID	<i>.iso.org.dod.internet.private.enterprises.ever.upsEver.komVFI33.upsVFI33Statistics.upsStatisticsInverterOverTemperatureCounter</i>
	<i>.1.3.6.1.4.1.9797.1.5.7.6</i>
Type	Integer
Access	Read
Format	x [-] (11 = 11)

upsStatisticsOverloadedOperationTime

Overloaded operation time.

OID	<i>.iso.org.dod.internet.private.enterprises.ever.upsEver.komVFI33.upsVFI33Statistics.upsStatisticsOverloadedOperationTime</i>
	<i>.1.3.6.1.4.1.9797.1.5.7.7</i>
Type	Integer
Access	Read
Format	x [min] (15 = 15 min)

upsStatisticsNormalOperationTime

Normal operation time.

OID	<i>.iso.org.dod.internet.private.enterprises.ever.upsEver.komVFI33.upsVFI33Statistics.upsStatisticsNormalOperationTime</i>
	<i>.1.3.6.1.4.1.9797.1.5.7.8</i>
Type	Integer
Access	Read
Format	x [h] (61663 = 61663 h)

upsStatisticsBatteryBackupOperationTime

Battery backup operation time.

OID	<i>.iso.org.dod.internet.private.enterprises.ever.upsEver.komVFI33.upsVFI33Statistics.upsStatisticsBatteryBackupOperationTime</i>
	<i>.1.3.6.1.4.1.9797.1.5.7.9</i>
Type	Integer
Access	Read
Format	x [min] (15 = 15 min)

upsStatisticsBypassOperationTime

Bypass operation time.

OID	<i>.iso.org.dod.internet.private.enterprises.ever.upsEver.komVFI33.upsVFI33Statistics.upsStatisticsBypassOperationTime</i>
	<i>.1.3.6.1.4.1.9797.1.5.7.10</i>
Type	Integer
Access	Read
Format	x [h] (6 = 6 h)

upsVFI33Events branch

List of events recorded by UPS. The date and time are taken from the UPS system clock.

upsEventsIndexRaw

Selected event number (1-40) from the list of events recorded by UPS. The reading of a selected event consists in writing the event number to this parameter and reading the following parameters containing the details of the event.

OID	<i>.iso.org.dod.internet.private.enterprises.ever.upsEver.komVFI33.upsVFI33Events.upsEventsIndexRaw</i>
	<i>.1.3.6.1.4.1.9797.1.5.8.1</i>
Type	Integer
Access	Read/Write
Format	-

upsEventsCodeMonthRaw

Code identifying the event and the month in which it occurred.

OID	<i>.iso.org.dod.internet.private.enterprises.ever.upsEver.komVFI33.upsVFI33Events.upsEventsCodeMonthRaw</i>
	<i>.1.3.6.1.4.1.9797.1.5.8.2</i>
Type	Integer
Access	Read
Format	-

The event code and month are decoded as follows:

- Read the OID value of **upsEventsCodeMonthRaw**
upsEventsCodeMonthRaw.0 18947
- Convert the read value to hexadecimal
18947 = 0x4A03
- The oldest byte (MSB) is the event code:
0x4A
- The youngest byte (LSB) is the month in **BCD format**:
0x03

The month is coded from 0x01 - January to 0x12 - December.

The codes for the events are shown in the table below:

Event code	Event
0x01	----
0x02	Operation Mode: Initialization
0x03	Operation Mode: STOP
0x04	Operation Mode: Watch
0x05	Operation Mode: ECO
0x06	Operation Mode: Normal
0x07	Operation Mode: Battery backup
0x08	Operation Mode: Hybrid
0x09	Operation Mode: Emergency
0x0A	Operation Mode: BYPASS
0x0B	Operation Mode: Standby
0x10	Alarm: Output short circuit
0x11	----
0x12	Alarm: Output overload
0x13	----
0x14	Alarm: Rectifier overtemperature
0x15	----
0x16	Alarm: Inverter overtemperature
0x17	----
0x18	Alarm: Battery fault
0x19	----
0x1A	Alarm: EPO active
0x1B	----
0x1C	Alarm: Rectifier internal error
0x1D	----
0x1E	Alarm: Inverter internal error
0x1F	Alarm: Parallel operation fault
0x30	Information: Battery charging - Start
0x31	Information: Battery charging - Stop
0x32	Warning: UPS output overload - Start
0x33	Warning: UPS output overload - Stop
0x34	Warning: Rectifier over temperature - Start
0x35	Warning: Rectifier over temperature - Stop
0x36	Warning: Inverter over temperature - Start
0x37	Warning: Inverter over temperature - Stop
0x38	Information: Waiting for the minimum state of battery charge - Start
0x39	Information: Waiting for the minimum state of battery charge - Stop
0x3A	Warning: Low battery - Start
0x3B	Warning: Low battery - Stop
0x3C	Warning: Service - Start
0x3D	Warning: Service - Stop
0x3E	Warning: Bypass - Start
0x3F	Warning: Bypass - Stop

0x40	Warning: Rectifier communication fail - Start
0x41	Warning: Rectifier communication fail - Stop
0x42	Warning: Inverter communication fail - Start
0x43	Warning: Inverter communication fail - Stop
0x44	Warning: Bypass input phase sequence fail - Start
0x45	Warning: Bypass input phase sequence fail - Stop
0x46	Warning: Bypass input out of range - Start
0x47	Warning: Bypass input out of range - Stop
0x48	Warning: Battery open circuit - Start
0x49	Warning: Battery open circuit - Stop
0x4A	Warning: Mains input out of range - Start
0x4B	Warning: Mains input out of range - Stop
0x4C	Warning: Mains input phase sequence fail - Start
0x4D	Warning: Mains input phase sequence fail - Stop
0x4E	Information: Dynamic reactive power compensation active - Start
0x4F	Information: Dynamic reactive power compensation active - Stop

The recorded event has the code **0x4A** (*Warning: Mains input out of range – Start*) and occurred in the month **0x03** (march).

upsEventsDayHourRaw

The day and hour the event occurred.

OID	<i>.iso.org.dod.internet.private.enterprises.ever.upsEver.komVFI33.upsVFI33Events.upsEventsDayHourRaw</i>
	<i>.1.3.6.1.4.1.9797.1.5.8.3</i>
Type	Integer
Access	Read
Format	-

The date and hour of the event occurrence are coded as follows:

- Read the OID value of **upsEventsDayHourRaw**
upsEventsDayHourRaw.0 535
- Convert the read value to hexadecimal
535 = 0x0217
- The oldest byte (MSB) is the day code in **BCD format**:
0x02 -> 02
- The youngest byte (LSB) is the hour code in **BCD format**:
0x17 -> 17

The event occurred on day 02 at 5 p.m.

upsEventsMinuteSecondRaw

Minutes and seconds when the event occurred.

OID	<i>.iso.org.dod.internet.private.enterprises.ever.upsEver.komVF133.upsVF133Events.upsEventsMinuteSecondRaw</i> <i>.1.3.6.1.4.1.9797.1.5.8.4</i>
Type	Integer
Access	Read
Format	-

The minute and second of the event occurrence are coded as follows:

- Read the OID value of **upsEventsMinuteSecondRaw**
upsEventsMinuteSecondRaw.0 20487
- Convert the read value to hexadecimal
20487 = 0x5007
- The oldest byte (MSB) is the day code in **BCD format**:
0x50 -> 50
- The youngest byte (LSB) is the hour code in **BCD format**:
0x07 -> 07

The event occurred at 50 minutes and 7 seconds.

Summarizing the above examples of the event log:

```
upsEventsCodeMonthRaw.0      18947 => 0x4A03
upsEventsDayHourRaw.0        535   => 0x0217
upsEventsMinuteSecondRaw.0   20487 => 0x5007
```

Events: 0x4A:

Date and time (MM/DD hh:mm:ss):

“Warning: Mains input out of range – Start”

03/02 17:50:07 (03/02 05:50:07pm)