



WebdynSunPM Annex



Webdyn Tags



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Webdyn Tags

Tags constitute the gateway's standardized abstraction layer. They enable devices (inverters, meters, batteries, etc.) to be represented in a uniform manner, regardless of manufacturer, protocol, or physical model.

A tag is a standardized logical variable associated with a device. Each tag belongs to one of the following four functional groups:

- **Information:** Static or descriptive data (e.g., manufacturer, model, rated power).
- **Status:** Indicators showing the device's operating status.
- **Control:** Writable variables used to modify the device's behavior (setpoints, limits, enable/disable).
- **Monitoring:** Physical measurements collected during operation (power, voltage, current, energy, temperature, etc.).

The introduction of tags serves two main purposes:

- **Standardization:** Provide a common data model for all devices to ensure:
 - a consistent structure for data files
 - multi-vendor compatibility
 - Simplified integration with third-party systems
- **Control:** Enable the LUA scripting engine to interact with devices through a stable interface that is independent of native registers.

Note

Not every device necessarily has all the listed tags. Either the device does not provide the corresponding register, or the tag has not yet been assigned.

Warning

Due to the quality of the manufacturer's documentation or the lack of real-world examples, tags may be assigned incorrectly. In this case, please contact our technical support team to have the correction made.



1 Inverters

Tags	Description	Feature Group
MANUFACTURER	Inverter Manufacturer	1 - BasicInfo
MODEL	Inverter Model	1 - BasicInfo
SERIAL	Serial Number	1 - BasicInfo
P_RATED	Rated Active Power	1 - BasicInfo
Q_RATED	Rated Reactive Power	1 - BasicInfo
R_ISO	Insulation Resistance	1 - BasicInfo
CMD_ON	High-State Flip-Flop	3 - BasicControl
CMD_OFF	Low-level flip-flop	3 - BasicControl
CMD_P_AC_LIM_PERCENT	Active power limitation in %	4 - ActiveControl
CMD_P_AC_LIM_ABS	Limitation of active power in the specified unit	4 - ActiveControl
CMD_P_AC_SET_PERCENT	Active Power Setting (%)	4 - ActiveControl
CMD_P_AC_SET_ABS	Adjusting the active power to the specified unit	4 - ActiveControl
CMD_P_MODE	Selecting the Active Power Control Mode	4 - ActiveControl
CMD_P_ENA	Enabling Active Power Limitation	4 - ActiveControl
CMD_P_RAMP_TIME_S	Time to reach the setpoint	4 - ActiveControl
CMD_P_REVERT_TIME_S	Time until return to the initial setpoint	4 - ActiveControl
VAR_P_AC_REPEAT_TIME_S	Repetition Interval for Active Power Command	4 - ActiveControl



Tags	Description	Feature Group
CMD_Q_AC_LIM_PERCENT	Reactive power limitation in %	5 - ReactiveControl
CMD_Q_AC_LIM_ABS	Limiting reactive power within the specified range	5 - ReactiveControl
CMD_Q_AC_SET_PERCENT	Reactive power setting in %	5 - ReactiveControl
CMD_Q_AC_SET_ABS	Reactive power control within the specified range	5 - ReactiveControl
CMD_Q_RAMP_TIME_S	Time to reach the setpoint	5 - ReactiveControl
CMD_Q_REVERT_TIME_S	Time until return to the initial setpoint	5 - ReactiveControl
CMD_Q_MODE	Selecting the Reactive Power Control Mode	5 - ReactiveControl
CMD_Q_ENA	Enabling Reactive Power Limitation	5 - ReactiveControl
VAR_PF_SIGN	Power Factor Sign Indication	5 - ReactiveControl
CMD_PF	Power Factor Adjustment	5 - ReactiveControl
E_DAY	Daily Energy Production	6 - BasicMonitoring
E_TOT	Total Energy Produced	6 - BasicMonitoring
TOT	Total operating time	6 - BasicMonitoring
TEMP_INT	Internal temperature	6 - BasicMonitoring
S_AC	Total Apparent Power	7 - ACMonitoring
S_AC_[1..3]	Apparent power, phases 1–3	7 - ACMonitoring
P_AC	Total Active Power	7 - ACMonitoring
P_AC_[1..3]	Active power, phases 1–3	7 - ACMonitoring
Q_AC	Total Reactive Power	7 - ACMonitoring
Q_AC_[1..3]	Reactive power, phases 1–3	7 - ACMonitoring
PF	Power Factor	7 - ACMonitoring
PF_[1..3]	Power factor, phases 1–3	7 - ACMonitoring
FREQ	Frequency	7 - ACMonitoring
FREQ_[1..3]	Frequency, Phases 1–3	7 - ACMonitoring
I_AC	AC Current	7 - ACMonitoring
I_AC_[1..3]	AC current, phases 1–3	7 - ACMonitoring
U_AC_L1L2	Complex voltage between phases 1 and 2	7 - ACMonitoring
U_AC_L2L3	Compound voltage between phases 2 and 3	7 - ACMonitoring



Tags	Description	Feature Group
U_AC_L3L1	Complex voltage, phase 3-1	7 - ACMonitoring
U_AC_[1..3]	Single-phase voltage 1..3	7 - ACMonitoring
I_DC	DC Bus Current	8 - DCMonitoring
I_DC_MPPT_[1..x]	MPPT × current	8 - DCMonitoring
I_DC_STRING_[1..x]	PV String x Current	8 - DCMonitoring
U_DC	DC Bus Voltage	8 - DCMonitoring
U_DC_MPPT_[1..x]	MPPT × voltage	8 - DCMonitoring
U_DC_STRING_[1..x]	PV String x Voltage	8 - DCMonitoring
U_DC_NE	DC Negative Voltage to Ground	8 - DCMonitoring
U_DC_PE	DC Positive Voltage to Ground	8 - DCMonitoring

2 Meters

Tags	Description	Feature Group
U_AC_L1L2 - L2L3 - L3L1	AC Phase-to-Phase Voltage 1–3	7 - ACMonitoring
U_AC_[1..3]	AC Phase-to-Neutral Voltage 1–3	7 - ACMonitoring
U_LE_AC_[1..3]	AC Phase-to-Earth Voltage 1..3	7 - ACMonitoring
U_NE	AC Neutral to Ground	7 - ACMonitoring
I_AC_[1..3]	AC Current Phases 1–3	7 - ACMonitoring
P_AC_[1..3]	Active Power Phases 1–3	7 - ACMonitoring
P_AC	Total Active Power	7 - ACMonitoring
Q_AC_[1..3]	Reactive Power, Phases 1–3	7 - ACMonitoring
Q_AC	Total Reactive Power	7 - ACMonitoring
S_AC_[1..3]	Apparent Power Phase 1–3	7 - ACMonitoring
S_AC	Total Apparent Power	7 - ACMonitoring
PF_[1..3]	Power Factor Phases 1–3	7 - ACMonitoring
PF	Total Power Factor	7 - ACMonitoring
FREQ_[1..3]	Frequency Phase 1–3	7 - ACMonitoring
FREQ	Total Frequency	7 - ACMonitoring



Tags	Description	Feature Group
E_TOT_[1..3]	Energy Phase 1–3	7 - ACMonitoring
E_TOT	Total Energy	7 - ACMonitoring
E_EXP_[1..3]	Export Energy Phases 1–3	7 - ACMonitoring
E_EXP	Total Energy Exports	7 - ACMonitoring
E_IMP_[1..3]	Import Energy Phases 1–3	7 - ACMonitoring
E_IMP	Total Energy Imports	7 - ACMonitoring
ES_[1..3]	Apparent Energy Phase 1–3	7 - ACMonitoring
ES	Total Apparent Energy	7 - ACMonitoring
ES_EXP_[1..3]	Total Apparent Export Energy Phases 1–3	7 - ACMonitoring
ES_EXP	Total Apparent Energy Exports	7 - ACMonitoring
ES_IMP_[1..3]	Total Apparent Import Energy Phases 1–3	7 - ACMonitoring
ES_IMP	Total Apparent Energy Import	7 - ACMonitoring
EQ_[1..3]	Reactive Energy Phases 1–3	7 - ACMonitoring
EQ	Total Reactive Energy	7 - ACMonitoring
EQ_EXP_[1..3]	Total Export of Reactive Energy, Phases 1–3	7 - ACMonitoring
EQ_EXP	Total Exported Reactive Energy	7 - ACMonitoring
EQ_IMP_[1..3]	Total Reactive Energy Import, Phases 1–3	7 - ACMonitoring
EQ_IMP	Total Imported Reactive Power	7 - ACMonitoring