

SMA SunSpec blue'Log Driver



DESCRIPTION OF FUNCTIONS

Driver: blue'Log driver for supporting SMA inverters. The communication occurs via SMA SunSpec.

COMMUNICATION

Max. number of inverters:	blue'Log X-1000	blue'Log X-3000	blue'Log X-6000
	31 ¹⁾	31 ¹⁾	31 ¹⁾
Communication interface:	Ethernet		
Protocol (transmission):	TCP (Modbus)		

¹⁾ SMA inverters need Speedwire/Webconnect interfaces for the communication via SMA SunSpec. Furthermore the Modbus TCP server of the inverters needs to be activated as it is deactivated by default (please see interface description of the manufacturer).

POWER CONTROL

Active power control:	Yes
Reactive power control:	Yes ²⁾

Active/reactive power control is not supported by all inverter types. An exact list is available from the inverter manufacturer.

²⁾ Reactive power control needs to be activated first by SMA. Please contact the inverter manufacturer for more information.

MEASUREMENT VALUES RECORDED

COS_PHI	cosφ
E_TOTAL	Total energy
F_AC	Grid frequency
I_AC	AC current
I_AC1	AC current 1
I_AC2	AC current 2
I_AC3	AC current 3
I_DC	DC current
I_DC1	DC current 1
I_DC2	DC current 2
I_DC3	DC current 3
I_DC4	DC current 4
I_DC5	DC current 5
I_DC6	DC current 6
P_AC	AC active power
P_DC	DC power
P_DC1	DC power 1
P_DC2	DC power 2
P_DC3	DC power 3
P_DC4	DC power 4
P_DC5	DC power 5
P_DC6	DC power 6
Q_AC	Reactive power
R_ISO	Insulation resistance
S_AC	Apparent power
STATE (1, 2, 3...)	Operating status (1, 2)
T (1, 2, 3...)	Temperature (1, 2, 3, 4)
U_AC_L1L2	Phase to phase voltage L1-L2
U_AC_L2L3	Phase to phase voltage L2-L3
U_AC_L3L1	Phase to phase voltage L3-L1
U_AC1	AC voltage 1
U_AC2	AC voltage 2
U_AC3	AC voltage 3
U_DC	DC voltage
U_DC1	DC voltage 1
U_DC2	DC voltage 2
U_DC3	DC voltage 3
U_DC4	DC voltage 4
U_DC5	DC voltage 5
U_DC6	DC voltage 6

The actually recorded values may vary due to the inverter model or the inverter firmware.

SUPPORTED INVERTERS

SUNNY BOY:	SB 5000SE-10	SB 3600SE-10	SB 3000TL-21
	SB 3600TL-21	SB 4000TL-21	SB 5000TL-21
	SB 2500TLST-21	SB 3000TLST-21	SB 3500TL-JP-22
	SB 4500TL-JP-22	SB 3000TL-US-22	SB 3800TL-US-22
	SB 4000TL-US-22	SB 5000TL-US-22	SB 6000TL-US-22
	SB 7000TL-US-22	SB 7700TL-US-22	SB1.5-1VL-40
	SB2.5-1VL-40	SB3.0-1SP-US-40	SB3.8-1SP-US-40
	SB5.0-1SP-US-40	SB6.0-1SP-US-40	SB7.0-1SP-US-40
	SB7.7-1SP-US-40	SB3.0-1AV-40	SB3.6-1AV-40
	SB4.0-1AV-40	SB5.0-1AV-40	
	SUNNY BOY STORAGE:	SBS2.5-1VL-40	
SUNNY TRIPOWER:	STP 50-40 (CORE 1)	STP 50-US-40 (CORE1-US)	STP 50-JP-40 (CORE1-JP)
	STP 10000TL-10	STP 12000TL-10	STP 15000TL-10
	STP 17000TL-10	STP 15000TLEE-10	STP 20000TLEE-10
	STP 10000TLEE-JP-10	STP 12000TL-US-10	STP 15000TL-US-10
	STP 20000TL-US-10	STP 24000TL-US-10	STP 30000TL-US-10
	STP 20000TLEE-JP-11	STP 10000TLEE-JP-11	STP 5000TL-20
	STP 6000TL-20	STP 7000TL-20	STP 8000TL-20
	STP 9000TL-20	STP 10000TL-20	STP 11000TL-20
	STP 12000TL-20	STP 15000TL-30	STP 20000TL-30
	STP 25000TL-30	STP 25000TL-JP-30	
	SUNNY ISLAND:	Sunny Island 6.0H	Sunny Island 8.0H
Sunny Island 4.4M		STP 12000TL-20	STP 15000TL-30
STP 20000TL-30		STP 25000TL-30	STP 25000TL-JP-30
SUNNY ISLAND:	Sunny Island 6.0H	Sunny Island 8.0H	Sunny Island 3.0M
	Sunny Island 4.4M		

Please contact Sales for details of compatibility with inverters not listed.

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