

## Description of commands:

**50) State request:** Ask the state of the system modules:

0	1	2	3	4	5	6	7	8	9
Address	50	-	-	-	-	-	-	CRC_L	CRC_H

Answer:

Tr. State	Global State	Inverter State	DC/DC Channel 1 State	DC/DC Channel 2 State	Alarm State	CRC_L	CRC_H
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State Codes:

Global State		DcDc State		Inverter State	
0	Sending Parameters	0	DcDc OFF	0	Stand By
1	Wait Sun/Grid	1	Ramp Start	1	Checking Grid
2	Checking Grid	2	MPPT	2	Run
3	Measuring Riso	3	<i>Not Used</i>	3	Bulk OV
4	DcDc Start	4	Input OC	4	Out OC
5	Inverter Start	5	Input UV	5	IGBT Sat
6	Run	6	Input OV	6	Bulk UV
7	Recovery	7	Input Low	7	Degauss Error
8	Pause	8	No Parameters	8	No Parameters
9	Ground Fault	9	Bulk OV	9	Bulk Low
10	OTH Fault	10	Communication Error	10	Grid OV
11	Address Setting	11	Ramp Fail	11	Communication Error
12	Self Test	12	Internal Error	12	Degaussing
13	Self Test Fail	13	Input mode Error	13	Starting
14	Sensor Test + Meas.Riso	14	Ground Fault	14	Bulk Cap Fail
15	Leak Fault	15	Inverter Fail	15	Leak Fail
16	Waiting for manual reset	16	DcDc IGBT Sat	16	DcDc Fail
17	Internal Error E026	17	DcDc ILEAK Fail	17	Ileak Sensor Fail
18	Internal Error E027	18	DcDc Grid Fail	18	SelfTest: relay inverter
19	Internal Error E028	19	DcDc Comm. Error	19	SelfTest: wait for sensor test
20	Internal Error E029			20	SelfTest: test relay DcDc + sensor
21	Internal Error E030			21	SelfTest: relay inverter fail
22	Sending Wind Table			22	SelfTest timeout fail
23	Failed Sending table			23	SelfTest: relay DcDc fail
24	UTH Fault			24	Self Test 1
25	Remote OFF			25	Waiting self test start
26	Interlock Fail			26	Dc Injection
27	Executing Autotest			27	Self Test 2
30	Waiting Sun			28	Self Test 3
31	Temperature Fault			29	Self Test 4
32	Fan Staucked			30	Internal Error
33	Int. Com. Fault			31	Internal Error
34	Slave Insertion			40	Forbidden State
35	DC Switch Open			41	Input UC
36	TRAS Switch Open			42	Zero Power

<b>37</b>	MASTER Exclusion			<b>43</b>	Grid Not Present
<b>38</b>	Auto Exclusion			<b>44</b>	Waiting Start
<b>98</b>	Erasing Internal EEPROM			<b>45</b>	MPPT
<b>99</b>	Erasing External EEPROM			<b>46</b>	Grid Fail
<b>100</b>	Counting EEPROM			<b>47</b>	Input OC
<b>101</b>	Freeze				

Alarm State					
Value	Description	Code	Value	Description	Code
0	No Alarm		32	Grid OV	W004
1	Sun Low	W001	33	Grid UV	W005
2	Input OC	E001	34	Grid OF	W006
3	Input UV	W002	35	Grid UF	W007
4	Input OV	E002	36	Z grid Hi	W008
5	Sun Low	W001	37	Internal error	E024
6	No Parameters	E003	38	Riso Low	E025
7	Bulk OV	E004	39	Vref Error	E026
8	Comm.Error	E005	40	Error Meas V	E027
9	Output OC	E006	41	Error Meas F	E028
10	IGBT Sat	E007	42	Error Meas Z	E029
11	Bulk UV	W011	43	Error Meas Ileak	E030
12	Internal error	E009	44	Error Read V	E031
13	Grid Fail	W003	45	Error Read I	E032
14	Bulk Low	E010	46	Table fail	W009
15	Ramp Fail	E011	47	Fan Fail	W010
16	Dc/Dc Fail	E012	48	UTH	E033
17	Wrong Mode	E013	49	Interlock fail	E034
18	Ground Fault	---	50	Remote Off	E035
19	Over Temp.	E014	51	Vout Avg error	E036
20	Bulk Cap Fail	E015	52	Battery low	W012
21	Inverter Fail	E016	53	Clk fail	W013
22	Start Timeout	E017	54	Input UC	E037
23	Ground Fault	E018	55	Zero Power	W014
24	Degauss error	---	56	Fan Stucked	E038
25	Ileak sens.fail	E019	57	DC Switch Open	E039
26	DcDc Fail	E012	58	Tras Switch Open	E040
27	Self Test Error 1	E020	59	AC Switch Open	E041
28	Self Test Error 2	E021	60	Bulk UV	E042
29	Self Test Error 3	E019	61	Autoexclusion	E043
30	Self Test Error 4	E022	62	Grid df/dt	W015
31	DC inj error	E023	63	Den switch Open	W016
			64	Jbox fail	W017

**Remark:** Alarm Codes (e.g. E001..) are shown only on Aurora Display. The Alarm State values are returned by serial communication