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## Commands

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## UART Update

Use binary files (stm32\_sine/foc.bin) for updating inverter firmware. Upload any other file for updating this web interface.

[Browse...](#) No file selected. [Upload](#)

## SWD Update

Use binary files (stm32\_loader.bin, stm32\_sine/foc.bin) for updating inverter bootloader/firmware.

[Browse...](#) No file selected. [Upload](#)[Erase Flash](#) | [Hard Reset](#) | [Download Bootloader](#) | [Download Flash](#)

## Parameters

[Parameter Reference](#)[Download Parameter File](#) Downloads the parameters as per the last table update[Browse...](#) No file selected. [Apply Parameter File](#)[Submit parameters to openinverter](#)Subscribe to parameter set: 


Type new value and hit enter to change. Only change one value at a time.

Messages: [Clear](#)

Set OK

[Toggle Category Visibility](#)

I	Name	Value	Unit	Minimum	Maximum	Default
- Motor						
0	boost	<input type="text" value="1700"/>	dig	0	37813	1700
1	fweak	<input type="text" value="90"/>	Hz	0	1000	90
2	fconst	<input type="text" value="180"/>	Hz	0	1000	180
3	udcnom	<input type="text" value="0"/>	V	0	1000	0
4	fslipmin	<input type="text" value="1"/>	Hz	0.28	10	1
5	fslipmax	<input type="text" value="3"/>	Hz	0.28	10	3
6	fslipconstmax	<input type="text" value="5"/>	Hz	0	10	5
7	polepairs	<input type="text" value="2"/>		1	16	2
8	respolepairs	<input type="text" value="1"/>		1	16	1
9	encmode	<input type="text" value="AB"/>		0	5	0
10	fmax	<input type="text" value="200"/>	Hz	21	1000	200
11	numimp	<input type="text" value="60"/>	ppr	8	8192	60
12	dirchrpm	<input type="text" value="100"/>	rpm	0	20000	100
13	dirmode	<input type="text" value="Switch"/>		0	4	1
14	snsr	<input type="text" value="KTY83-110"/>		12	16	12
- Inverter						
15	pwmfrq	<input type="text" value="8.8kHz"/>		0	2	1
16	pwmpol	<input type="text" value="ACTHIGH"/>		0	1	0
17	deadtime	<input type="text" value="63"/>	dig	0	255	63
18	ocurlim	<input type="text" value="100"/>	A	-65536	65536	100
19	il1gain	<input type="text" value="4.68"/>	dig/A	-100	100	4.68
20	il2gain	<input type="text" value="4.68"/>	dig/A	-100	100	4.68
21	udcgain	<input type="text" value="6.15"/>	dig/V	0	4095	6.15
22	udcofs	<input type="text" value="0"/>	dig	0	4095	0
23	udclim	<input type="text" value="540"/>	V	0	1000	540
24	snsr	<input type="text" value="JCurve"/>		0	6	0
- Derating						
25	bmslimhigh	<input type="text" value="50"/>	%	0	100	50
26	bmslimlow	<input type="text" value="-1"/>	%	-100	0	-1
27	udcmin	<input type="text" value="450"/>	V	0	1000	450

Commands	Update	Parameters	Spot Values	Plot	 Refresh	<input type="checkbox"/> Auto
29 idcmax	5000	A	0	5000	5000	
30 idcmin	-5000	A	-5000	0	-5000	
31 trmphpsmax	85	°C	50	150	85	
32 trmpmmax	300	°C	70	300	300	
33 throtmax	100	%	0	100	100	
34 throtmin	-100	%	-100	0	-100	
35 iacmax	5000	A	0	5000	5000	
36 ifltrise	10	dig	0	32	10	
37 ifltfall	3	dig	0	32	3	
- Charger						
38 chargemode	Off		0	4	0	
39 chargecur	0	A	0	50	0	
40 chargekp	80	dig	0	100	80	
41 chargeki	10	dig	0	100	10	
42 chargeflt	8	dig	0	10	8	
43 chargepwmmin	0	%	0	99	0	
44 chargepwmax	90	%	0	99	90	
- Throttle						
45 potmin	0	dig	0	4095	0	
46 potmax	4095	dig	0	4095	4095	
47 pot2min	4095	dig	0	4095	4095	
48 pot2max	4095	dig	0	4095	4095	
49 potmode	SingleRegen		0	2	0	
50 throtramp	100	%/10ms	0.09	100	100	
51 throtramprpm	20000	rpm	0	20000	20000	
52 ampmin	10	%	0	100	10	
53 slipstart	50	%	10	100	50	
- Regen						
54 brknompedal	-50	%	-100	0	-50	
55 regenramp	100	%/10ms	0.09	100	100	
56 brknom	30	%	0	100	30	
57 brkmax	-30	%	-100	0	-30	
58 brkcruise	-30	%	-100	0	-30	
59 brkrampstr	10	Hz	0	400	10	
60 brkout	-50	%	-100	-1	-50	
- Automation						
61 idlespeed	-100	rpm	-100	10000	-100	
62 idlthrotlim	50	%	0	100	50	
63 idlemode	always		0	3	0	
64 speedkp	0.25		0	100	0.25	
65 speedflt	5		0	16	5	
66 cruisemode	Button		0	2	0	
- Contactor Control						
67 udcswh	330	V	0	1000	330	
68 udcswbuck	540	V	0	1000	540	
69 tripmode	AllOff		0	3	0	
- Aux PWM						
70 pwmfunc	tmpm		0	3	0	
71 pwmgain	100		-100000	100000	100	
72 pwmofs	0	dig	-65535	65535	0	
- Communication						
73 canspeed	500k		0	3	1	
74 canperiod	100ms		0	1	0	
- Testing						
75 fslipsnt	0.53	Hz	-100	1000	0	
76 ampnom	9.53	%	0	100	0	

## Spot Values

Show Gauges

Show Data Logger

Name	Value	Unit	Plot	CAN Id	Position	Bits	Gain	Map to CAN
version	4.96.R-sine		<input type="checkbox"/> I <input type="checkbox"/> r					<input type="button" value="TX"/> <input type="button" value="RX"/>
hwver	Rev2		<input type="checkbox"/> I <input type="checkbox"/> r					<input type="button" value="TX"/> <input type="button" value="RX"/>
opmode	Off		<input type="checkbox"/> I <input type="checkbox"/> r					<input type="button" value="TX"/> <input type="button" value="RX"/>
lasterr	PRECHARGE		<input type="checkbox"/> I <input type="checkbox"/> r					<input type="button" value="TX"/> <input type="button" value="RX"/>
status	UdcBelowUdcSw		<input type="checkbox"/> I <input type="checkbox"/> r					<input type="button" value="TX"/> <input type="button" value="RX"/>
udc	1.78	V	<input type="checkbox"/> I <input type="checkbox"/> r					<input type="button" value="TX"/> <input type="button" value="RX"/>

