Commands

Save Parameters to Flash

Restore Parameters from Flash

Restore Defaults

Start Inverter in manual Mode

Stop Inverter

Display Error Memory

Reset CAN Mapping

Send Custom Command

Wifi Settings

Update

Use binary files (stm32sine_HWCONFIG_XXX.bin) for updating inverter firmware. Upload any other file for updating this web interface.

If board is locked up:

1. Start update
2. Reset main board with reset button (be quick, time out after 5s)
3. Update should run normally

Choose File No file chosen Upload

Parameters

Parameter Reference

Download Parameter File Downloads the parameters as per the last table update

Choose File No file chosen Upload

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

Messages: Clear

```
[1]: WARN - PWMSTUCK
```

Commands | Update | Parameters | Spot Values | Plot | Refresh | Auto

Name	Value	Unit	Minimum	Maximum	Default
- Motor					
boost	2000	dig	0	37813	1700
fweak	270	Hz	0	1000	90
fconst	180	Hz	0	1000	180
udcnom	360	V	0	1000	0
fslipmin	1.25	Hz	0	10	1
fslipmax	5	Hz	0	10	3
fslipconstmax	5	Hz	0	10	5
polepairs	2		1	16	2
respolepairs	1		1	16	1
encmode	AB		0	5	0
fmin	0.06	Hz	0	400	1
fmax	500	Hz	21	1000	200
numimp	36	ppr	8	8192	60
dirchrpm	100	rpm	0	2000	100
dirmode	Switch		0	3	1
syncofs	0	dig	0	65535	0
snsm	KTY83-110		12	14	12
- Inverter					
pwmfrq	8.8kHz		0	4	1
pwmpol	ACTHIGH		0	1	0
deadtime	63	dig	0	255	63
ocurlim	-2500	A	-65536	65536	100
minpulse	1000	dig	0	4095	1000
il1gain	-1	dig/A	-100	100	4.68
il2gain	-1	dig/A	-100	100	4.68
udcgain	7.5	dig/V	0	4095	6.15
udcofs	0	dig	0	4095	0
udclim	405	V	0	1000	540
snshs	JCurve		0	5	0

Commands | Update | Parameters | Spot Values | Plot | Refresh | Auto

bmslimhigh	100	%	0	100	50
bmslimlow	-20	%	-100	0	-1
udcmin	0	V	0	1000	450
udcmax	520	V	0	1000	520
iacmax	5000	A	0	5000	5000
idcmax	5000	A	0	5000	5000
idcmin	-5000	A	-5000	0	-5000
throtmax	100	%	0	100	100
ifltrise	10	dig	0	32	10
iffltfall	3	dig	0	32	3
- Charger					
chargemode	Off		0	4	0
chargecur	0	A	0	50	0
chargekp	80	dig	0	100	80
chargeflt	8	dig	0	10	8
chargemax	90	%	0	99	90
- Throttle					
potmin	820	dig	0	4095	0
potmax	4095	dig	0	4095	4095
pot2min	4095	dig	0	4095	4095
pot2max	4095	dig	0	4095	4095
potmode	SingleRegen		0	2	0
throtramp	10	%/10ms	0.09	100	100
throtramprpm	20000	rpm	0	20000	20000
ampmin	5	%	0	100	10
slipstart	30	%	10	100	50
- Regen					
brknompedal	-20	%	-100	0	-50
regenramp	100	%/10ms	0.09	100	100
brknom	30	%	0	100	30

brkrampstr	10	Hz	0	400	10
brkout	-50	%	-100	-1	-50
- Automation					
idlespeed	-100	rpm	-100	10000	-100
idlethrotlim	50	%	0	100	50
idlemode	always		0	2	0
speedkp	0.12		0	100	0.25
speedflt	5		0	16	5
cruisemode	Button		0	1	0
- Contactor Control					
udcsw	0	V	0	1000	330
udcswbuck	540	V	0	1000	540
tripmode	PrechargeOn		0	2	0
- Aux PWM					
pwmfunc	tmpm		0	3	0
pwmgain	100		-100000	100000	100
pwmofs	0	dig	-65535	65535	0
- Communication					
canspeed	250k		0	3	0
canperiod	100ms		0	1	0
- Testing					
fslipspnt	0	Hz	-100	1000	0
ampnom	0	%	0	100	0

Spot Values

Show Gauges | Show Data Logger

Name	Value	Unit	Plot	CAN Id	Position	Bits	Gain	Map to CAN
version	4.57.R-sine		☐ l ☐ r					TX RX

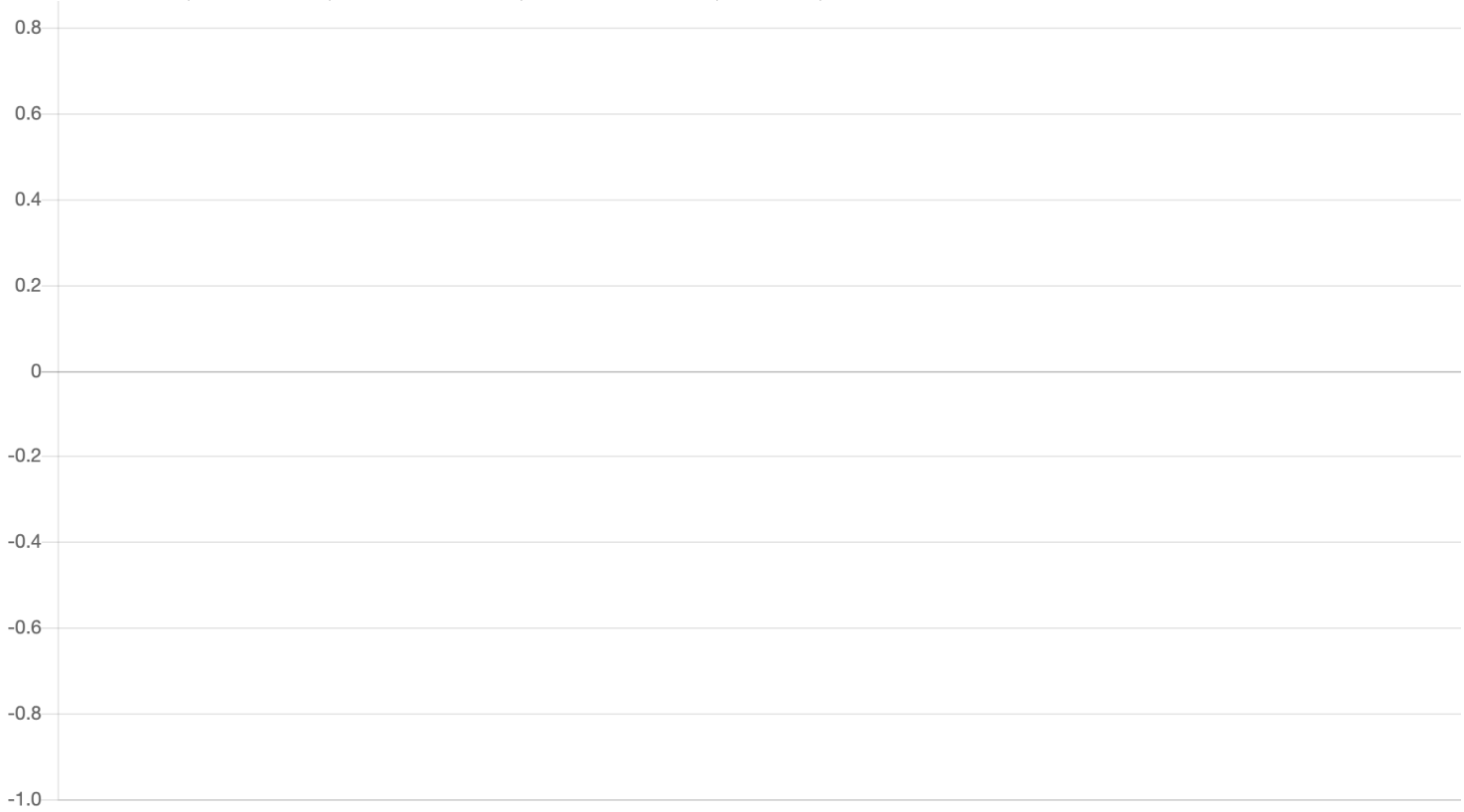
Commands	Update	Parameters	Spot Values	Plot	Refresh	Auto	
		r					TX RX
opmode	Off	r					TX RX
lasterr	PWMSTUCK	r					TX RX
udc	1.31	V r					TX RX
idc	0	A r					TX RX
il1	0	A r					TX RX
il2	0	A r					TX RX
ilmax	0	A r					TX RX
uac	0	V r					TX RX
il1rms	0	A r					TX RX
il2rms	0	A r					TX RX
boostcalc	64000	dig r					TX RX
fweakcalc	8.43	Hz r					TX RX
fstat	0	Hz r					TX RX
speed	0	rpm r					TX RX

Commands	Update	Parameters	Spot Values	Plot	Refresh	Auto	
		r					TX RX
amp	0	dig	r				TX RX
angle	0	°	r				TX RX
pot	960	dig	r				TX RX
pot2	27	dig	r				TX RX
potnom	-12.21	%	r				TX RX
dir	Reverse		r				TX RX
tmphs	18.12	°C	r				TX RX
tmpm	15.31	°C	r				TX RX
uaux	16.43	V	r				TX RX
pwmio	50944		r				TX RX
canio			r				TX RX
din_cruise	Off		r				TX RX
din_start	Off		r				TX RX
din_brake	Off		r				TX RX

Commands	Update	Parameters	Spot Values	Plot	Refresh	Auto	
		r					TX RX
din_forward	Off	☐ I ☐ r					TX RX
din_reverse	On	☐ I ☐ r					TX RX
din_emcystop	Ok	☐ I ☐ r					TX RX
din_ocur	Ok	☐ I ☐ r					TX RX
din_desat	Ok	☐ I ☐ r					TX RX
din_bms	On	☐ I ☐ r					TX RX
cpuload	0.78	% ☐ I ☐ r					TX RX

Plot

Commands | Update | Parameters | Spot Values | Plot | Refresh | Auto



Start Plot | Stop Plot | Pause Plot | Limit data points to: 1000 | Burst length: 10

Charting by chart.js

Gauges by Mykhailo Stadnyk