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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

Parameters

[Parameter Reference](#)

[Download Parameter File](#) Downloads the parameters as per the last table update

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

Messages:



Name	Value	Unit	Minimum	Maximum	Default
- Motor					
boost		dig	0	37813	1700
fweak		Hz	0	1000	90
fconst		Hz	0	1000	180
udcnom		V	0	1000	0
fslipmin		Hz	0	10	1
fslipmax		Hz	0	10	3

fslipconst max	Hz	0	10	5
polepairs		1	16	2
respolepairs		1	16	1
encmode	SingleABABZSPI ResolverSinCos	0	5	0
fmin	Hz	0	400	1
fmax	Hz	21	1000	200
numimp	ppr	8	8192	60
dirchrpm	rpm	0	2000	100
dirmode	ButtonSwitchButtonReversedSwitchReversed	0	3	1
syncofs	dig	0	65535	0
snsn	KTY83-110KTY84-130Leaf	12	14	12
- Inverter				
pwmfrq	17.6kHz8.8kHz4.4kHz2.2kHz1.1kHz	0	4	1
pwmpol	ACTHIGHACTLOW	0	1	0
deadtime	dig	0	255	63

ocurlim	A	-6553 6	65536	100
minpulse	dig	0	4095	1000
il1gain	dig/A	-100	100	4.68
il2gain	dig/A	-100	100	4.68
udcgain	dig/V	0	4095	6.15
udcofs	dig	0	4095	0
udclim	V	0	1000	540
snsbs	JCurveSemikronM BB600KTY81PT1 000NTCK45_2k2 Leaf	0	5	0
- Derating				
bmslimhigh	%	0	100	50
bmslimlow	%	-100	0	-1
udcmin	V	0	1000	450
udcmax	V	0	1000	520
iacmax	A	0	5000	5000
idcmax	A	0	5000	5000

idcmin	A	-5000	0	-5000
throtmax	%	0	100	100
ifltrise	dig	0	32	10
ifltfall	dig	0	32	3
- Charger				
chargemode	OffBoostBuck	0	4	0
chargecur	A	0	50	0
chargekp	dig	0	100	80
chargeflt	dig	0	10	8
chargemax	%	0	99	90
- Throttle				
potmin	dig	0	4095	0
potmax	dig	0	4095	4095
pot2min	dig	0	4095	4095
pot2max	dig	0	4095	4095
potmode	SingleRegenDualChannelCAN	0	2	0

throtramp	%/ 10ms	0.09	100	100
throtramp rpm	rpm	0	20000	2000 0
ampmin	%	0	100	10
slipstart	%	10	100	50
- Regen				
brknomp edal	%	-100	0	-50
regenram p	%/ 10ms	0.09	100	100
brknom	%	0	100	30
brkmax	%	-100	0	-30
brkramps tr	Hz	0	400	10
brkout	%	-100	-1	-50
- Automation				
idlespeed	rpm	-100	10000	-100
idlethrotli m	%	0	100	50
idlemode	alwaysnobrakecru seoff	0	2	0

speedkp		0	100	0.25
speedflt		0	16	5
cruisemode	ButtonSwitch	0	1	0
- Contactor Control				
udcsw	V	0	1000	330
udcswbu ck	V	0	1000	540
tripmode	AllOffDcSwOnPre chargeOn	0	2	0
- Aux PWM				
pwmfunc	tmpmtmphsspeeds peedfrq	0	3	0
pwmgain		-1000 00	10000 0	100
pwmofs	dig	-6553 5	65535	0
- Communication				
canspeed	250k500k800k1M	0	3	0
canperiod	100ms10ms	0	1	0
- Testing				

fslipspnt	Hz	-100	1000	0
ampnom	%	0	100	0

Spot Values

 Show Gauges

Name	Value	Unit	Plot	CAN Id	Position	Bits	Gain	Map to CAN
version	4.56. R-sine		lr					TX RX
hwver	Tesla		lr					TX RX
opmode	Run		lr					TX RX
lasterr	PWM STUCK		lr					TX RX
udc	1.31	V	lr					TX RX
idc	0	A	lr					TX RX
il1	3	A	lr					TX RX

il2	4	A	l r	TX RX
ilmax	3.75	A	l r	TX RX
uac	0	V	l r	TX RX
il1rms	3.53	A	l r	TX RX
il2rms	2.5	A	l r	TX RX
boost calc	2100	d i g	l r	TX RX
fweak calc	270	H z	l r	TX RX
fstat	0	H z	l r	TX RX
speed	0	r p m	l r	TX RX
turns	0		l r	TX RX
amp	0	d i g	l r	TX RX

angle	84.25	°	l r	TX RX
pot	376	d i g	l r	TX RX
pot2	23	d i g	l r	TX RX
potnom	-12.5	%	l r	TX RX
dir	Forward		l r	TX RX
tmphs	19.06	° C	l r	TX RX
tmpm	0	° C	l r	TX RX
uaux	16.43	V	l r	TX RX
pwmio	5094 4		l r	TX RX
canio			l r	TX RX
din_cruise	Off		l r	TX RX

Start Plot Stop Plot Pause Plot Limit data points to: Burst
length:

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Gauges by [Mykhailo Stadnyk](#)