

You can save configuration to microSD as a text file, name it **NCconf.cfg** and load, in **Auto-setup** section select **Load config-file**.

Use ANSI or Windows-1251 encoding.

Below is a list of default parameters:

```
# Comment

[Nucular Controller]
Save settings = OFF
Disable button = None
Auto shutdown = OFF
Sleep time = 300
Update software = OFF
Reset Wh usage = OFF
Reset stats = OFF
Reset config = OFF
Erase data storage = OFF

[Auto-setup]
Full setup = OFF
Brake = Off
Throttle = Off
Motor = Off
Angle correction = Off
Setup current = 10

[Control]
Control source = Auto
Throttle min = 1000
Throttle max = 4300
Brake min = 2000
Brake max = 4300
Invert brake = OFF
Cruise = Disabled
Cruise EN time = 2.0
Cruise by throttle = 2
PAS = Disabled
PAS connection = 2-wire
Invert PAS = OFF
PAS poles = 48
PAS min freq. = 10
PAS max freq. = 50
PAS timeout = 0.25
PAS filter = 5
Pressure scale = 55.5
Zero pressure = 1500
Torque averaging = 2
Human watt min = 50
Human watt max = 300
PAS min out = 0
```

PAS max out = 100

[Control modes]

Phase 1: = 30

Battery 1: = 15

Speed 1: = 50

Phase 2: = 60

Battery 2: = 30

Speed 2: = 100

Phase 3: = 100

Battery 3: = 50

Speed 3: = 100

Braking phase = 50

Speed reverse: = 5

Phase reverse: = 25

Field weakening = 0

Throttle mode = Torque

Allow brake for speed ctrl. = OFF

Current change speed:

- acceleration = 400

- braking = 300

- shutdown = 1500

Speed filter = Quadratic

Filter factor = 5000

[PID regulators]

Phase Ki = 0.50

Phase Kp = 0.250

DCv Ki = 1000.0

DCv Kp = 25.0

DCi Ki = 20.0

DCi Kp = 1.0

Speed Kp = 0.100

Speed Ki = 0.500

Speed Kd = 0.250

PLL Kp = 1000

PLL Ki = 40000

[Motor setup]

Pole pair = 23

Spin direction = Forward

Integration threshold = 50.0

Control mode now = Sensorless

Control mode = Sensorless

From hall to s-less = 1.0

Interpolate halls = ON

Interpolation start = 20

Boost square current = ON

Boost current = 25

Boost speed = 0.31

Absolute limit = 95

kV = 0.0

[Motor t°-sensor]

°t max = 150.0

Delta °t = 20.0

Sensor type = NTC10K

[Hall table]

Square offset = 10

Hall 0: = 0

Hall 1: = 1

Hall 2: = 5

Hall 3: = 6

Hall 4: = 3

Hall 5: = 2

Hall 6: = 4

Hall 7: = 0

Offset fwd 1: = 0

Offset fwd 2: = 0

Offset fwd 3: = 0

Offset fwd 4: = 0

Offset fwd 5: = 0

Offset fwd 6: = 0

Offset bkwd 1: = 0

Offset bkwd 2: = 0

Offset bkwd 3: = 0

Offset bkwd 4: = 0

Offset bkwd 5: = 0

Offset bkwd 6: = 0

[Battery]

Full charge (delta) = 1.0

Supply max V = 54.60

Supply min V = 36.40

Charge max A = 10.0

Discharge max A = 50.0

[Converter]

Enable = OFF

Auto-Enable = OFF

Battery max = 0.0

Battery max = 0.0

Supply max = 10.0

Supply drop U = 2.0

[Status flags]

Reset? = OFF

[Clutch]

Mode: = OFF

Start time = 5

```
Start current = 15.0
Detection time = 200
Acceleration = 50
Hold (20) = 1.0
Hold (80) = 2.2
Hold enable time = 30
Hold time = 2

[Additional features]
#Device ID = 34 #uncomment to use this ID
Master-controller = OFF
Speed calculation = ON
Circle length = 1930
PWM freq = 1kHz
PWM P1 = Disabled
PWM P1 Min = 20
PWM P1 Max = 100
PWM P2 = Disabled
PWM P2 Min = 20
PWM P2 Max = 100''
```

From:

<https://docs.nucular.tech/> - **Nucular Electronics**

Permanent link:

<https://docs.nucular.tech/doku.php?id=en:controller:config&rev=1602163181>

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