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''
```