

UPDATING GRID SETTINGS THROUGH RS485

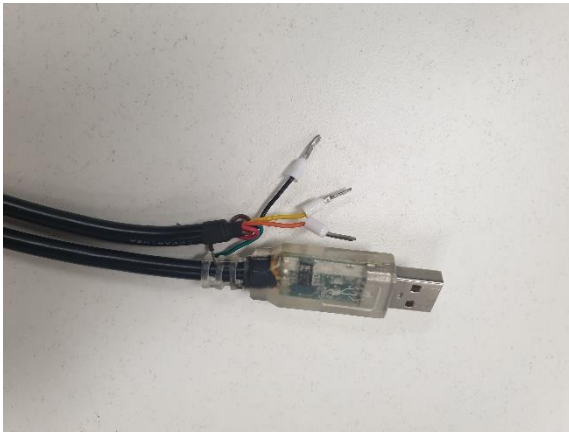
Author: Felix Sng

Updating Grid Settings Through RS485

Important Note: Please install the Driver for the USB to RS485 cable.
<https://sync.netoverdrive.com.au:510/shares/file/d8ed1b676fcdb4/>

You will need:

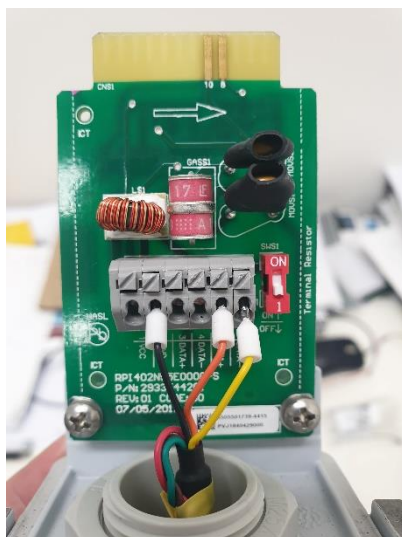
RS485 TO USB



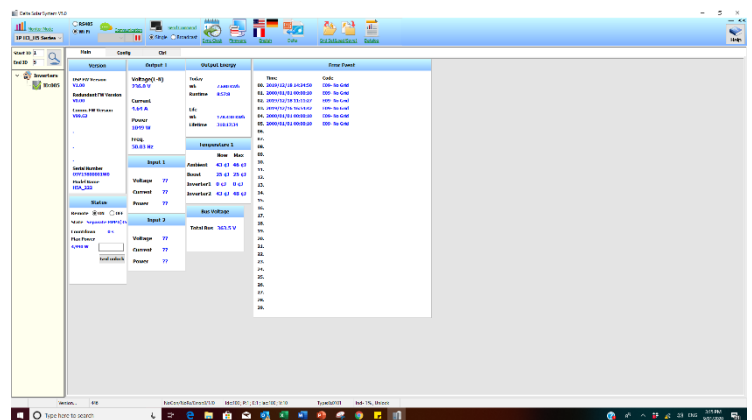
WINDOWS LAPTOP



CONFIGURATION
OF RS485 ON
COMMUNICATION
MODULE



DSS SOFTWARE



Updating Grid Settings Through RS485

Please Download HEX files for the update:

Model	Type	Link
Solivia	2.5	https://sync.netoverdrive.com.au:510/shares/folder/fcec8ac83ff1ba/
	3.0	https://sync.netoverdrive.com.au:510/shares/folder/9150577efd6b01/
	3.3	https://sync.netoverdrive.com.au:510/shares/folder/1e08eedfdc577c/
	5.0	https://sync.netoverdrive.com.au:510/shares/folder/3e7e40ec34c0cb/
	15 / 20	Firmware: https://sync.netoverdrive.com.au:510/shares/folder/e30ffda534f178/ Power Limit: https://sync.netoverdrive.com.au:510/shares/folder/8c186aa77c3d8f/
RPI	H3	https://sync.netoverdrive.com.au:510/shares/folder/a0a4f891a77135/
	H3A/ H4A/ H5A	https://sync.netoverdrive.com.au:510/shares/folder/62f3e95439befc/
	Hybrid E5	https://sync.netoverdrive.com.au:510/shares/folder/1d1d213583a9c1/
	M6A/ M10A	https://sync.netoverdrive.com.au:510/shares/folder/5be1bf36da23e9/
	M15A/ M20A	https://sync.netoverdrive.com.au:510/shares/folder/1121d794c46c4b/
	M30A	https://sync.netoverdrive.com.au:510/shares/folder/d5c8723cb47900/
RPI FLEX	FLEX	DSP: https://sync.netoverdrive.com.au:510/shares/file/9edaac7ee6b00d/ COM: https://sync.netoverdrive.com.au:510/shares/file/1db9eca8b6c966/

Solivia



RPI



RPI FLEX



Updating Grid Settings Through RS485



Delta Solar System V5.0

Monitor Mode **1**

RS485 **2** Wi-Fi **3**

Send Command

Single Broadcast

Sync Clock Firmware English ???



Grid Set(Load/Save) Datalog

Help

Start ID 1 **3a**

End ID 5

Inverters ID:001

- 1) Choose Inverter model
 - 1P H3_H5 Series
 - 1P Wifi Series
 - 3P M125 Series
 - 3P MxA_MxH Series
 - BX_6.0
 - Hybrid_E5
- 2) Choose COM Port that is connected to the inverter
 - COM10
 - COM10
- 3) Press the Play Button to start Communication 
- 3a) If the area that is populated is in red text, please click the Magnifying Glass 



Type here to search



11:11 AM
10/01/2020

6

Updating Grid Settings Through RS485



Delta Solar System V5.0

Monitor Mode
1P H3_H5 Series

RS485
Wi-Fi
Communication
Send Command
COM10
Single Broadcast
Sync Clock
Firmware
English
Delta
Grid Set(Load/Save)
DataLog
Help

Start ID 1
End ID 5

Main **Config 4** Ctrl

Version	Output 1	Output Energy
DSP FW Version V3.40	Voltage(L-N) 235.6 V	Today Wh 0.360 KWh Runtime 0:49:33
Redundant FW Version V2.00	Current 1.95 A	Life Wh 132.060 KWh Lifetime 229:53:8
Comm. FW Version V2.22	Power 413 W	
	Freq. 50.09 Hz	
		Temperature 1
		Now Max
Serial Number 01J13C00164W0	Input 1	Ambient 40 °C 45 °C
Model Name ??	Voltage ??	Boost 27 °C 36 °C
	Current ??	Inverter1 27 °C 40 °C
	Power ??	Inverter2 0 °C 0 °C
		Bus Voltage
Status	Input 2	Total Bus 362.6 V
Remote <input checked="" type="radio"/> ON <input type="radio"/> OFF	Voltage ??	
State Separate MPPT(35)	Current ??	
Countdown 0 s	Power ??	
Max Power 4,950 W		
Grid unlock		

4) Click Config. It will prompt you with a password shown below. Please enter the password **4613**.

Input Password Please

.....

OK Cancel

ID: 4 19200 Output... 186 COM Open NoRx/Error:6/0 Idc:100; P:1; E:10; Iac:100; V:10 Type:0x0000 Ind- 1%, Unlock

Type here to search

11:12 AM 10/01/2020

Updating Grid Settings Through RS485



Delta Solar System V5.0

Monitor Mode | 1P H3_H5 Series | RS485 | Wi-Fi | Communication | Send Command | Sync Clock | Firmware | English | Delta | Grid Set(Load/Save) | Datalog | Help

Start ID: 1, End ID: 5

Inverters ID:001

Country Set: Australia

Reclosure Time: ??

Inverter ID: ??

RS485 Baud rate: 19200

Insulation: CTRL: ON OFF, R Limit: 1150, String 1: 8794, String 2:

DC Injection: CTRL: ON OFF, Amp: 15.00 A, Time: 3.0 Sec

Uac Protection		Freq. Protection	
U High Off:	265.0 V	F High Off:	52.00 Hz
U High Off Time:	0.10 Sec	F High Off Time:	0.10 Sec
U High On:	253.0 V	F High On:	50.15 Hz
U High Off Slow:	255.0 V	F High Off Slow:	70.00 Hz
U High Off Slow Time:	1.00 Sec	F High Off Slow Time:	655.35 Sec
U High On Slow:	253.0 V	F High On Slow:	70.00 Hz
U Low Off:	180.0 V	F Low Off:	47.00 Hz
U Low Off Time:	1.50 Sec	F Low Off Time:	1.50 Sec
U Low On:	185.0 V	F Low On:	47.50 Hz
U Low Off Slow:	0.0 V	F Low Off Slow:	0.00 Hz
U Low Off Slow Time:	655.35 Sec	F Low Off Slow Time:	655.35 Sec
U Low On Slow:	0.0 V	F Low On Slow:	0.00 Hz

5) Please change “U High off Slow” to **258**. To do this, please type 258 in this field and press enter. The 255 in blue will update in a few seconds to 258.

Important Note: Do not change other setting as it will not be compliant to Australian standards.

ID: 5 | 19200 | Insulation... | 1034 | COM Open | NoRx/Error:12/0 | Idc:100; P:1; E:10; Iac:100; V:10 | Type:0x0000 | Ind- 1%, Unlock

Type here to search | Windows Taskbar | 11:14 AM 10/01/2020