

SETUP GUIDE

MT HIGH VOLTAGE VERSION

DC-CONTROLLER



USV-Power

<u>Step 1</u>

Load the <u>USV6 Configurator</u> software on to your PC or laptop.



Step 2

Connect the laptop or PC to the RS232 port on the USV6-H controller.



The cable required for this is an RS232 cable, similar to this example. If the computer has a serial port, the cable can directly be connected to the computer. If not, a USB to RS232 converter may be required.



<u>Step 3</u>

Now, connect CAN 1 on the USV6-H controller to X1 on the USV-1 converter with a CAN cable.



The cable required for this step is a CAN cable as pictured below



<u>Step 4</u>

Connect the USV14 Display to the USV6-H Controller using the CAN connectors. On the USV14, ensure that the CAN connection is made using the connection as shown.



<u>Step 5</u>

Connect the USV-1 converter to the MT rectifier. To do this, connect the X4 ports on the USV-1 to the green screw terminals on the rear of the MT connector.



For this step, use small gauge wire to connect to the terminals.

Note, if X2 is not used, please set the first DIP switch on S1 of the USV-1 to ON. This is a CAN termination resistor, needed when X2 is not used.

<u>Step 6</u>

The circuit should now be similar to below.



<u>Step 7</u>

Once everything is connected, the USV-6 software can be used.

If the USV-6 controller is not correctly connected to the PC, this screen will be displayed and be unable to make modifications.

File Data RS232 Help	
🔜 📐 🖹 🖹 USV Power	Exit
Signal configuration Battery Boost -/ Manual charge / System test Counter	cells Mains Mon. USV3
Text Analog inputs Digital inputs Thresholds Devices	Outputs Communication
Serial-No.	
	jo line 1
Project	mber of characters 0
Firmware C German	Inder of characters o
	jo line 2
Path From S3 No.	where of characters 0
Memo Memo	×
OK cancel	8 1 2016 15:57:08

Once the software is installed with the RS232 cable connected, the USV-6 configurator will load.

USV-6 Configurator Version 2.0.0				_ _ ×
File Data RS232 Help				
	USV Power			
Signal configuration Battery	Boost-/Manual charge/System test Co			Mains Mon. USV3
I ext Analog inputs Digit	al inputs Thresholds	Devices	Outputs	Communication
Serial-No.	Language USV-6			
	C English		Logo line 1	
Project			 Number of ch	aractore 0
Firmware	C German		riumber of ch	braclers o
1 million			Logo line 2	
Path	C Customer spec	ific		
			Number of ch	aracters U
Memo				
				*
				~
Interface: COM4	<u>0</u> K	cancel	6. 1.20	16 16:57:50

First, click the "Read USV-6 -> PC" button in the "Data" tab. This will download all the variables from the USV-6 to the PC.

WSV-6 Configurator Version 2.0.0				_ _ ×
File Data RS232 Help				
Read USV-6 -> PC	USV Power			
s Write PC -> USV-6	Boost-/Manual c	harge / System test	Counter cells	Mains Mon. USV3
Text Analog inputs	Digital inputs T	hresholds Devi	ces Outputs	Communication
Serial-No. Project Firmware Path Memo		nguage USV-6	Logo line 1 Number of chr	aracters 0
Interface: COM4	<u>O</u> K	cancel	6. 1.20	16 17:01:38

Once the data has been received, all the information from the USV-6 will be displayed. Changes can now be made in the configurator.

USV-6 Configurator Version 2.0.0		
File Data RS232 Help		
	USV Power	Exit
Signal configuration Battery	Boost -/ Manual charge / System test	Counter cells Mains Mon. USV3
Text Analog inputs Digit	al inputs Thresholds Devi	ces Outputs Communication
Seriel-No III000000-000 000	Language USV-6	
381a110. [33000000-000.000	© English	Logo line 1
Project		Your Company
F	C German	Number of characters 14
Firmware Version 2.41		Logo line 2
Path	C Swedish	USV-6 V2.0x
	- Swedish	
Nominal voltage range : USV-6 - L (20V-8	0∨)	
Memo		*
Interface: COM4	<u>O</u> K <u>c</u> ancel	6. 1.2016 17:05:26

Once the changes have been made, press the "Write PC -> USV-6 button". Once the data has transferred, any changes made will be present on the USV6.

🧭 USV-6 Configurator Version 2.0.0					
File Data RS232 Help					
Read USV-6 -> PC	l I	USV Power			
S Write PC -> USV-6	y Boost-/Manu	y Boost -/ Manual charge / System test Counter cells Mains Mon.			
Text Analog inputs	Digital inputs	Thresholds Dev	ices Outputs	Communication	
Text Analog inputs Digital inputs Thresholds Devices Outputs Communication Serial-No. JJ000000-000.000 Image USV-6 Image USV-6 Image USV-6 Project Image Image USV-6 Image USV-6 Image USV-6 Firmware Version 2.41 Image Image USV-6 Image USV-6 Path Image Imag					
				×	
Interface: COM4	<u></u> K	cancel	6. 1.2	016 17:11:30	

USV-6 Configurator Version 2.0.0				- • ×
File Data RS232 Help				
	USV Power			Exit
Signal configuration Battery	Boost -/ Manual charge / Syste	m test C	ounter cells	Mains Mon. USV3
Text Analog inputs Digite	al inputs Thresholds	Devices	Outputs	Communication
Reviel No. TTOODOOD 000 000	Language USV-8	;		
3818-100. 133000000-000.000	English		Logo line 1	
Project			Compan	уA
-	C German		Number of che	aracters 12
Firmware Version 2.41			Logo line 2	
Path	Data transmission PC ->	USV-6		^{0x}
1	Transmission runn	ing I		acters 16
Nominal voltage range : USV-6 - L (20V-80		ing :		
		160 o	f 1024 Words	
Memo				
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				-
1				
latoface: COM4	ок	cancel	6, 1,20	16 17:12:56
Intendce, COM4				

Additional Information

The connector for the MT rectifier can be attached directly to the MT module, or to the MT rectifier sub-rack. This allows the user to remove the MT rectifier from the rack without removing the connector cable.

