

# PowerFlex 525 - USB application

#### **Objective**

The purpose of this document is to describe the USB functionality of the PowerFlex 525 and how to work with the files created by the utility. It serves as an addition to the PowerFlex 525 user manual.

#### Description

Once the control module is removed from the control section (procedure described in the user manual) you will find a USB port at the back of the control module.

Once you connect a USB type B cable (i.e. USB printer cable) from the drive to a computer it will open up a window containing a folder. Depending on the AUTOPLAY settings in *Windows* the window may not popup automatically. Change this via Windows Control Panel  $\rightarrow$  Autoplay. The files can also be located on the removable disk in Windows Explorer.



This folder contains a small pdf document with the most common fault code and parameter list as well as the

### following executable file. Double-clicking on the PF52XUSB.EXE file will open the following utility. It allows the users to upload and

download parameter-files and to modify the drive's firmware. Parameter files are saved with a .p5f file extension.

POWEFFIEX 525 1P 240V .50HP 1.002 Only one control module can be connected via USB at any time. Upload Upload a configuration from the drive or peripheral Download Download a configuration to the drive or peripheral Flash Flash the drive or peripheral Flash Flash the drive or peripheral To obtain the latest version of Connected Components Workbench, go to: http://ab.com/qo/ccws For the latest drive or peripheral fimware updates, go to: http://www.ab.com/support/abdrives/webupdate/index.html For the latest product manuals, go to: http://distructure.com/support/abdrives/webupdate/index.html	Drive	Peripheral	Connected
1P 240V - SUHP     1.002     Only one control module can be connected via USB at any time.     Upload Upload a configuration from the drive or peripheral     Download Download a configuration to the drive or peripheral     Pash Flash the drive or peripheral     To obtain the latest version of Connected Components Workbench, go to:     http://ab.com/qo/ccws For the latest drive or peripheral fimware updates, go to:     http://www.ab.com/support/abdrives/webupdate/index.html For the latest product manuals, go to:     http://web.com/support/abdrives.go to:     http://web.com/support/s	PowerFlex 525		
Only one control module can be connected via USB at any time.           Upload         Upload a configuration from the drive or peripheral           Download         Download a configuration to the drive or peripheral           Flash         Flash the drive or peripheral           To obtain the latest version of Connected Components Workbench, go to:         http://ab.com/qo/ccws           For the latest drive or peripheral fimware updates, go to:         http://ab.com/support/abdrives/webupdate/index.html           For the latest product manuals, go to:         http://db.com/support/abdrives/webupdate/index.html	1P 240V .50HP 1.002		
Upload         Upload a configuration from the drive or peripheral           Download         Download a configuration to the drive or peripheral           Flash         Flash the drive or peripheral   To obtain the latest version of Connected Components Workbench, go to: <a href="http://ab.com/go/ccws">http://ab.com/go/ccws</a> For the latest drive or peripheral firmware updates, go to: <a href="http://www.ab.com/support/abdrives/webupdate/index.html">http://www.ab.com/support/abdrives/webupdate/index.html</a> For the latest product manuals, go to: <a href="http://webupdate/index.html">http://webupdate/index.html</a> For the latest product manuals, go to: <a href="http://webupdate/index.html">http://webupdate/index.html</a>	Only	one control module can be connected via USB	at any time.
Download         Download a configuration to the drive or peripheral           Plash         Flash the drive or peripheral   To obtain the latest version of Connected Components Workbench, go to: <a href="http://ab.com/go/ccws">http://ab.com/go/ccws</a> For the latest drive or peripheral firmware updates, go to: <a href="http://www.ab.com/support/abdrives/webupdate/index.html">http://www.ab.com/support/abdrives/webupdate/index.html</a> For the latest product manuals, go to: <a href="http://www.ab.com/support/abdrives/webupdate/index.html">http://www.ab.com/support/abdrives/webupdate/index.html</a> For the latest product manuals, go to: <a href="http://webupdate/index.html">http://webupdate/index.html</a> For the latest product manuals, go to:	Upload	Upload a configuration from the drive or peripheral	
Flash         Flash the drive or peripheral           To obtain the latest version of Connected Components Workbench, go to:         http://ab.com/qo/ccws           For the latest drive or peripheral firmware updates, go to:         http://www.ab.com/support/abdrives/webupdate/index.html           For the latest product manuals, go to:         http://www.ab.com/support/abdrives/webupdate/index.html           For the latest product manuals, go to:         http://webupdate.im.gov/index.html	Download	Download a configuration to the drive or peripheral	
To obtain the latest version of Connected Components Workbench, go to: <u>http://ab.com/go/ccws</u> For the latest drive or peripheral firmware updates, go to: <u>http://www.ab.com/support/abdrives/webupdate/index.html</u> For the latest product manuals, go to: <u>http://iter.ub.com/support/abdrives/webupdate/index.html</u>	Flash	Flash the drive or peripheral	
http://ab.com/go/ccws For the latest drive or peripheral firmware updates, go to: http://www.ab.com/support/abdrives/webupdate/index.html For the latest product manuals, go to:	To obtain the latest ve	ersion of Connected Components Workbench, go to:	
For the latest drive or peripheral firmware updates, go to: http://www.ab.com/support/abdrives/webupdate/index.html For the latest product manuals, go to: http://iterature.mc/swellast.domation.com/dc/cmums/ou/blic/documents/webassets/browse_category.br	http://ab.com/go/ccv	<u>vs</u>	
http://www.ab.com/support/abdrives/webupdate/index.html For the latest product manuals, go to: http://iterature.mc/swellar.tomation.com/dc/cmuips/ou/blic/documents/webassets/browse_category.br	For the latest drive or	peripheral firmware updates, go to:	
For the latest product manuals, go to: http://therature.cock.wella.tomation.com/idc/groups/oublic/documents/webassets/browse_category.br	http://www.ab.com/s	upport/abdrives/webupdate/index.html	
http://literature.rockwellautomation.com/idc/arouns/public/documents/webassets/browse_category.bc		manuals, go to:	
	For the latest product		





### Downloading a file via USB

Click on **Download Drive Parameter Data** and locate the stored **.p5f** file. Click on next then download to complete the action.

The second selection "Download Peripheral..." becomes visible if an optional DeviceNet or Profibus card is installed.

Select Download File - PowerFlex 525, 1.003			
Configuration File Location: C:\ Available Configuration Files for Download PF525-parameters pf5			
< Back Next > Cancel			
🐻 Confirm Download - PowerFlex 525, 1.003			
File: C:\PF525-parameters.pf5			
Available Download Options       Image: Second Drive Parameter Data       Download Peripheral Parameter Data			
< Back Download Cancel			
Executing Download - PowerFlex 525, 1.003			
Download has completed.			
C:\++products\5 class\demo\CoTMD07 V1-03-80\PF525-COTMD07-V-103-80.pf5			
Download has completed.			
Go back when complete < Back OK Cancel			





Automatio

Close the download window and the PowerFlex 520-USB application. Disconnect the USB cable and mount the control module back on the drive to start operating.

If the stored parameterfile had been uploaded from a differently sized drive a "mismatch warning" will popup. Click OK to continue.



#### Uploading a file via USB

Then click

Tick the box for **Upload Drive parameter data** then click **Next**. Browse to the folder where the file needs to stored and enter a name, then press **save**. The second selection "Upload peripheral..." becomes visible if an optional DeviceNet or Profibus card is installed.

ſ	Select Upload Options	
	Upload drive parameter data	
	Upload peripheral parameter data	
Select U	< Back Next > pload Location - PowerFlex 525, 1.003	Cancel
Je ocheer o		
Select a lo	cation and name for the upload file:	
C:\PF525;	Sarameters.pf5	Browse
Union	File: PF525-parameters.pt5	
Opload	Type. NGCD Drive conliguration life	
	< Back Upl	oad Cancel



Click **Close** to complete the action.

Executing Upload - Pov	werFlex 525 of 1.003		
Upload Complete			
C:\PF525-parameters.pf5			
Upload Complete			
	< Back	Close	Cancel

#### Importing-Exporting a .p5f file in Connected Components Workbench

There are 2 ways to import a stored .p5f file in Connected Components Workbench CCW (>V3.x).

1. Select **Import Drive File** from the **Tools** pull down menu. Browse to the file location, select the file and click **open**.



This will open the .p5f file for editing.









2. Select Import from the drive properties window. Double click on a drive in the Project Organizer then open the drive properties window as shown below.



Select the USB import tab then click Import.







You will be prompted to Import Entire Device (Drive and options) or Import Only Port 0 (Drive only). The import action will overwrite the existing drive configuration in the project organizer.



All the parameters can be edited when the file is opened in CCW. Once all the modifications have been done the **export** function can be used to store the new file as a .p5f file. Go to the drive **properties**, select the **USB Import/Export**. Click on **Export** then browse to the location where you want to store the file and click **save**.







#### Importing/exporting a .p5f file in RSLogix 5000 or Studio 5000

Open the drive module Properties window once a drive is added to the controller IO configuration. Click on the **Drive** tab and click on the **Properties button**.



The same view, as shown on the Connected Components Workbench section, will be opened. Follow the same steps for Upload or download as described previously.







#### Flash the firmware using the USB application

#### Click on Flash

Drive	Peripheral	Connected
PowerFlex 525		
1P 240V .50HP		
1.003		
Only o	ne control module can be connected via USB	at any time.
Upload	Upload a configuration from the drive or peripheral	
Download	Download a configuration to the drive or peripheral	
Flash	Flash the drive or peripheral	
To obtain the latest ver	sion of Connected Components Workbench, go to:	
http://ab.com/go/ccw	<u>1</u>	
For the latest drive or p	eripheral firmware updates, go to:	
http://www.ab.com/su	pport/abdrives/webupdate/index.html	
For the latest product r	nanuals, go to:	
http://literature.rockwe	llautomation.com/idc/groups/public/documents/weba	ssets/browse_category.hcst

Select the right firmware version (V1.003.80 = original release) and click **Next.** Firmware files can be downloaded from <u>http://www.ab.com/support/abdrives/webupdate/</u>

Select Flash Update - Powe	erFlex 525, 1.003		
Flash Update File Location			
C:\Program Files (x86)\ControlF	LASH\0001\0094\0009		Browse
Available Flash Updates			September 201
Drive - PowerFlex 525 v1.003 8	80		
	< Back	Next >	Cancel





Click **Flash** to start the flashing process which takes about 6 minutes to complete (using the serial USB connection).

Confirm Flash Upd	late - PowerFlex 525, 1.003	_		
Flash Update will insta defaults. It is recomme flash update, you mus	Il new firmware in the device and inded that you save device setting t verify device settings. If you are	could change device : gs to your PC prior to fla not ready to flash upda	settings to ash update. After ate, click Cancel.	
Do not interrupt comm during Flash Update. I	Do not interrupt communications with the device or attempt to remove power from the device during Flash Update. Failure to comply may cause device damage.			
Prior to and during Fla flash update, click Fla	sh Update, all devices at the node sh.	e must be stopped. If y	ou are ready to	
Current Revision:	1.003			
New Revision:	PowerFlex 525 v1.003.80			
	< Back	Flash	Cancel	

