

How to Add an Inverter File (OND file) to PVsyst



What is an OND file?



An OND file is a file used in the simulation program, PVsyst, that contains the specifications of an inverter.

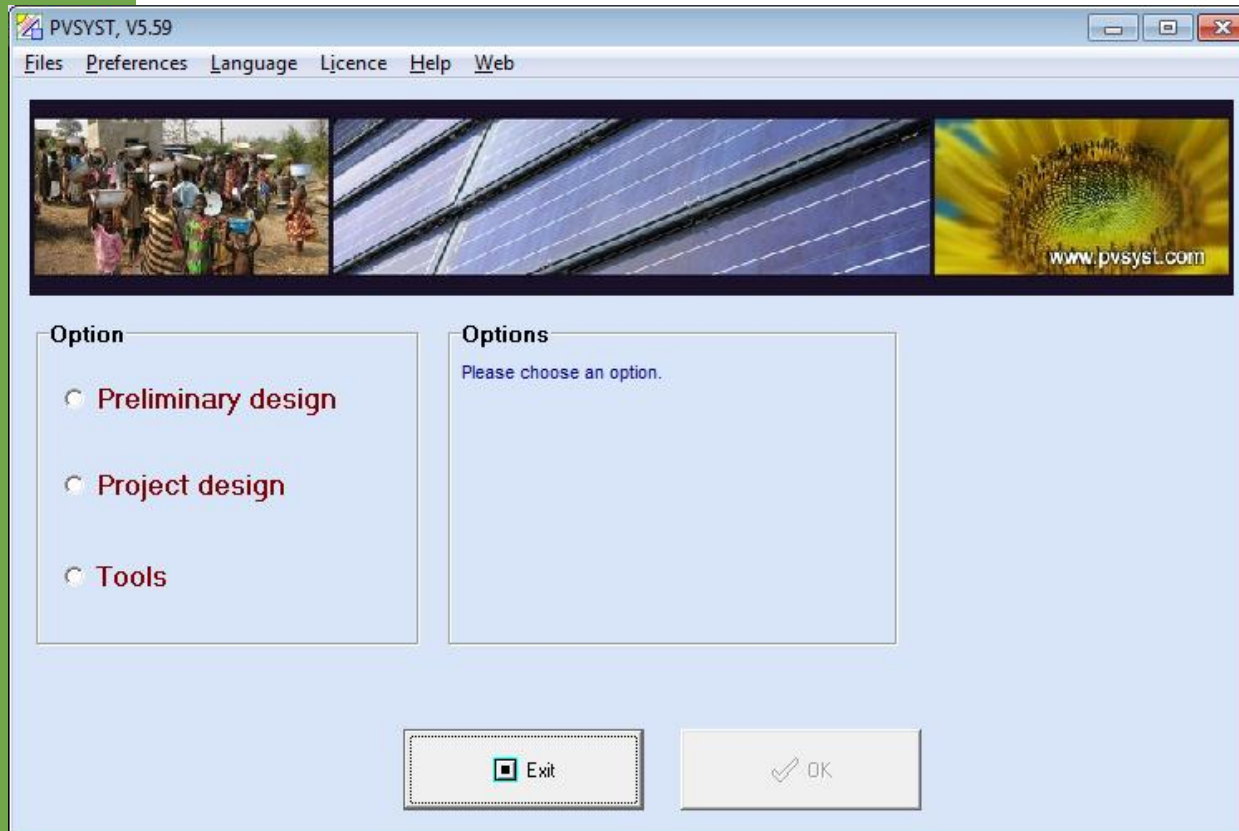
The screenshot shows the 'Grid inverter definition' dialog box with the following parameters:

Parameter	Value	Unit
Model	PVI 100kW 208V	
Manufacturer	Solectria Renewables	
File name	Solectria_PVI_100kW_208V.OND	
Data source	Manufacturer 2013	
Input side (DC PV field)		
Minimum MPP Voltage	300	V
Min. Voltage for PNom	N/A	V
Nominal MPP Voltage	N/A	V
Maximum MPP Voltage	500	V
Absolute max. PV Voltage	600	V
Power Threshold	500.0	W
Contractual specifications, without real physical meaning	<input type="checkbox"/> Required	
Nominal PV Power	N/A	kW
Maximum PV Power	N/A	kW
Maximum PV Current	N/A	A
Output side (AC grid)		
Type	<input checked="" type="radio"/> Triphased	
Frequency	<input checked="" type="checkbox"/> 60 Hz	
Grid Voltage	208	V
Nominal AC Power	100	kW
Maximum AC Power	100	kW
Nominal AC current	278	A
Maximum AC current	278	A
Efficiency		
Maximum efficiency	96.2 %	
EURO efficiency	95.3 %	
Efficiency defined for 3 voltages	<input checked="" type="checkbox"/>	

Screen shot of Main Parameter tab of OND file for PVI 100KW 208V



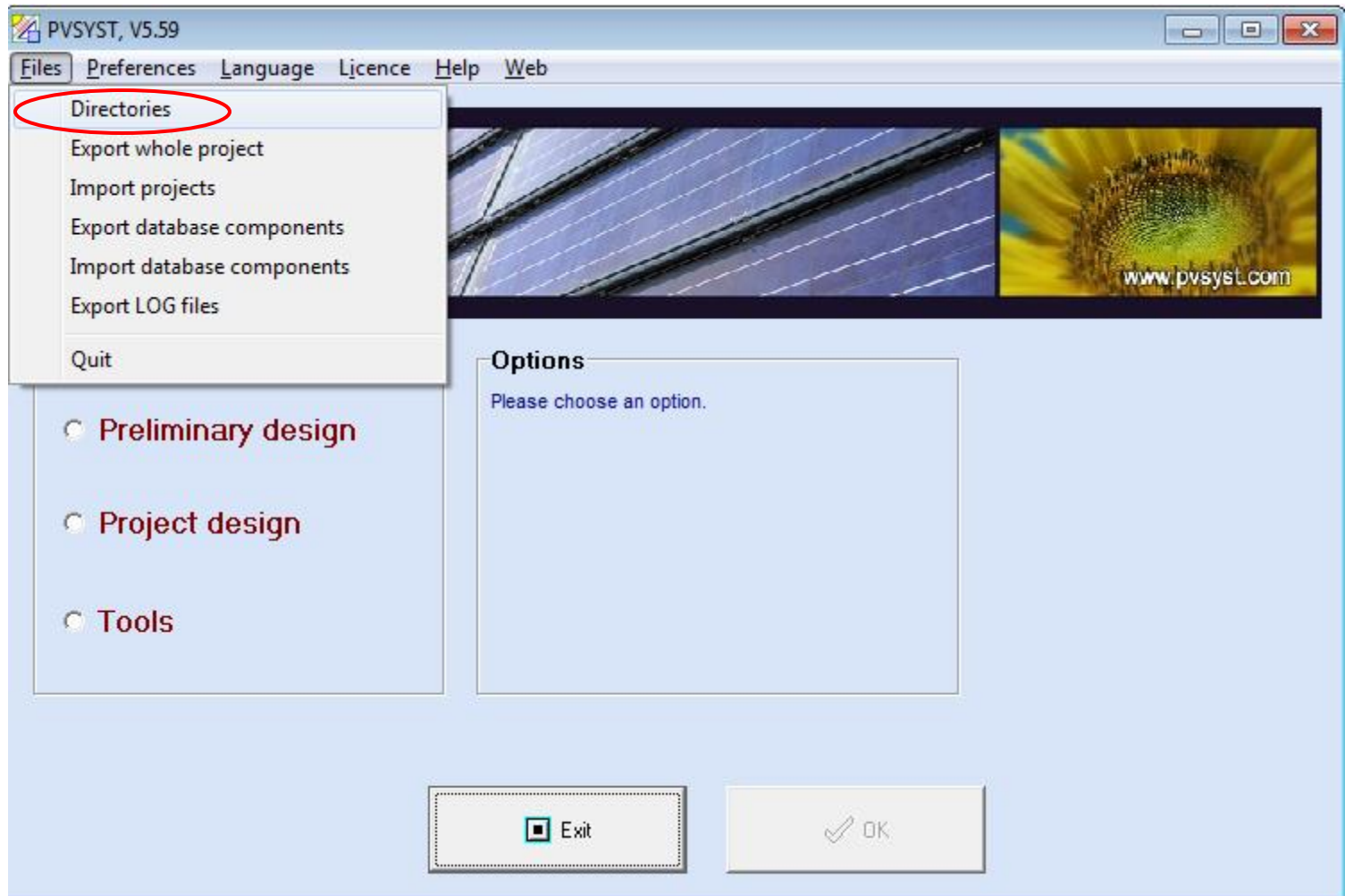
Adding an OND file to PVsyst



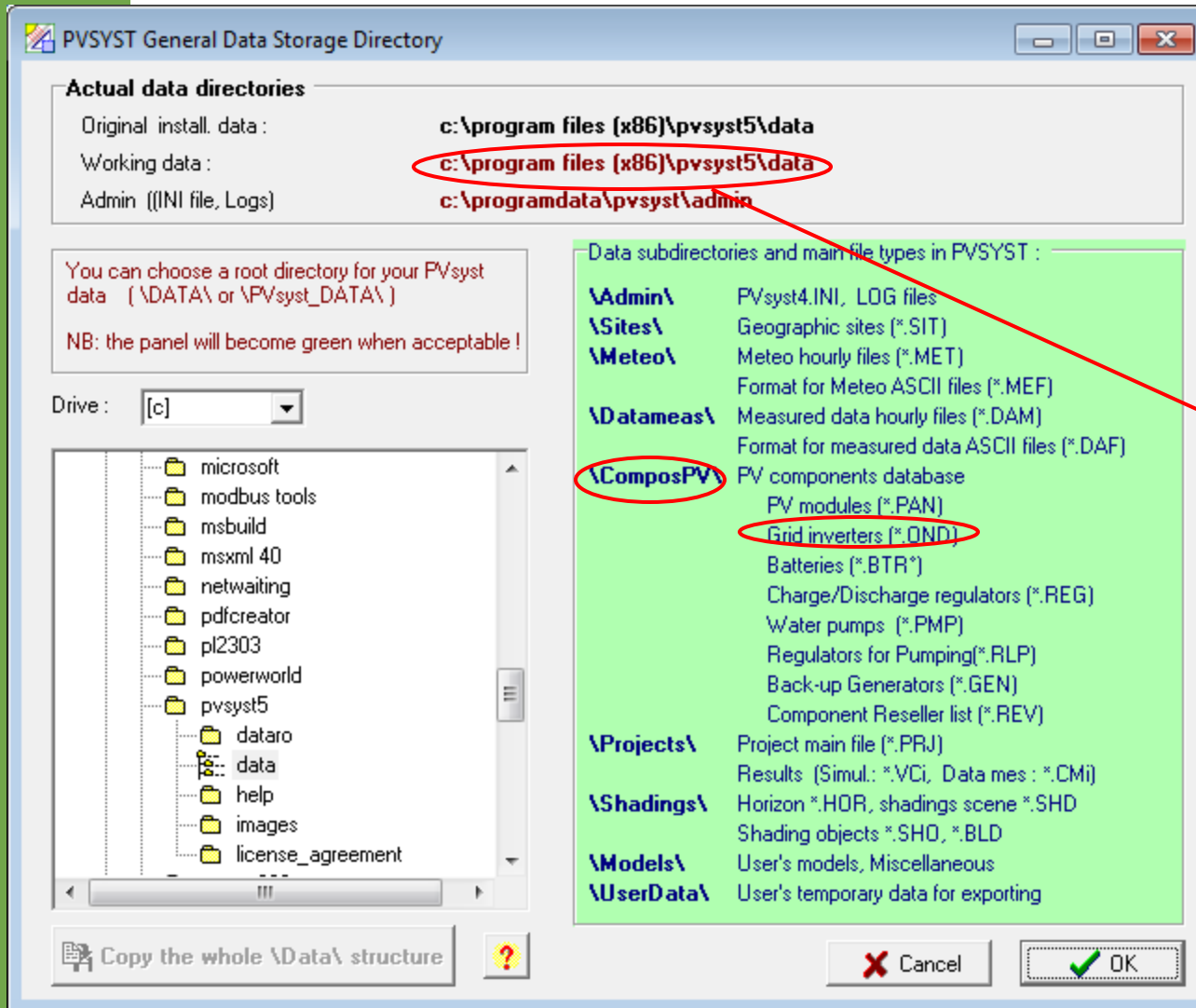
Find the directory where OND files are stored by following the steps shown on the following slides. Then, add the individual OND files to the inverter directory so they become available for use in PVsyst.



Adding an OND file to PVsyst



Adding an OND file to PVsyst



Actual data directories

Original install. data : c:\program files (x86)\pvsyst5\data
Working data : c:\program files (x86)\pvsyst5\data
Admin ([INI file, Logs]) : c:\programdata\pvsyst\admin

You can choose a root directory for your PVsyst data (\DATA\ or \PVsyst_DATA\)
NB: the panel will become green when acceptable !

Drive : [c]

File list: microsoft, modbus tools, msbuild, msxml 40, netwaiting, pdfcreator, pl2303, powerworld, pvsyst5, dataro, data, help, images, license_agreement

Data subdirectories and main file types in PVSYST :

- \Admin\ PVsyst4.INI, LOG files
- \Sites\ Geographic sites (*.SIT)
- \Meteo\ Meteo hourly files (*.MET)
Format for Meteo ASCII files (*.MEF)
- \Datameas\ Measured data hourly files (*.DAM)
Format for measured data ASCII files (*.DAF)
- \ComposPV\ PV components database
PV modules (*.PAN)
Grid inverters (*.OND)
Batteries (*.BTR*)
Charge/Discharge regulators (*.REG)
Water pumps (*.PMP)
Regulators for Pumping (*.RLP)
Back-up Generators (*.GEN)
Component Reseller list (*.REV)
- \Projects\ Project main file (*.PRJ)
Results (Simul.: *.VCI, Data mes : *.CMi)
- \Shadings\ Horizon *.HOR, shadings scene *.SHD
Shading objects *.SHO, *.BLD
- \Models\ User's models, Miscellaneous
- \UserData\ User's temporary data for exporting

Buttons: Copy the whole \Data\ structure, Cancel, OK

This location may vary by user.

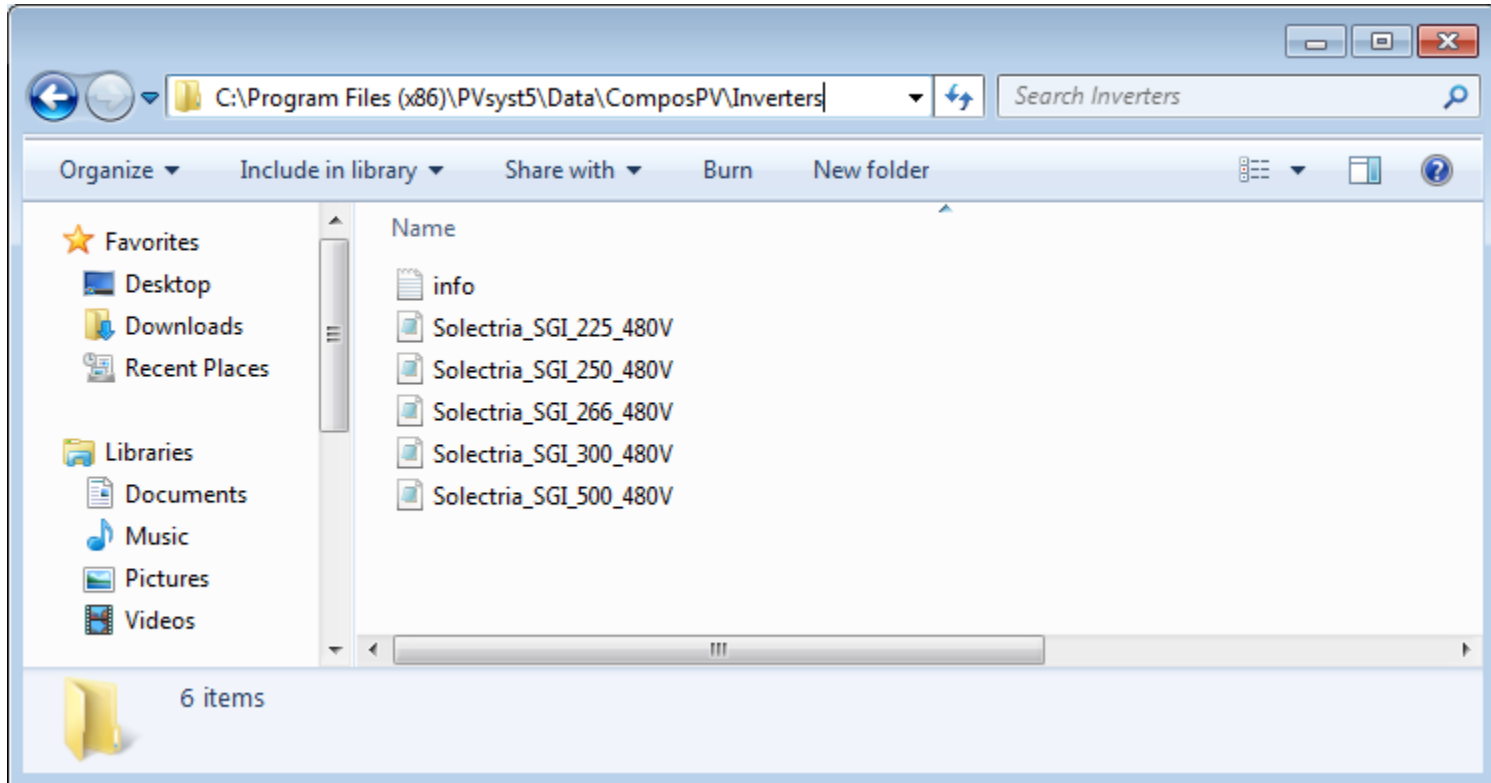
On this computer, OND files are stored in:

C:\program files (x86)\PVsyst5\data\ComposPV\Inverters

Adding an OND file to PVsyst



Add OND files to the PVsyst directory identified on the previous slide.



Restart PVsyst.

Now inverter models are available for use in PVsyst.

