



Powersim Studio 10 Editions

	Premium	Expert	Professional
MODELING FEATURES			
Characteristics of tool			
Stock and flow modeling for both continuous and discrete simulation	x	x	x
Project Tree Window for a clear overview of the structure of the simulation project	x	x	x
Calendar-dependent and calendar-independent simulations	x	x	x
Bank, Fiscal and Gregorian calendars	x	x	x
Multi-lingual models (all Western and Asian languages)	x	x	x
Multiple diagrams/sheets when constructing models	x	x	x
Advanced Equations View	x	x	x
Automatic unit of measurement control	x	x	x
User-defined and derived units as well as built-in physical units which you may customize	x	x	x
Customized and built-in currencies and currency conversions	x	x	x
Multiple simulations per model	x	x	x
Export and import of variable values from clipboard/external files	x	x	x
Shared Diagrams (common to all simulations) and Private Diagrams (unique for one simulation)	x	x	x
Password protection of models - Protect Run access, View access or Edit access	x	x	
Maximum numbers of cores in multi-core processing when running simulations	8	3	2
Placeholders allowing texts that are repeated many times to be easily changed	x	x	x
Modeling features			
Series variables allowing you to work with time series of values in models	x	x	x
More than 200 built-in functions	x	x	x
Function indicators in diagrams	x	x	x
Instant calculation of formulas without running the model	x	x	x
Powerful array syntax - up to 6 dimensions, defined by numeric or enumerated ranges	x	x	x
Elements allowed per array variable	10 M	0.5 M	0.01 M
Amount of memory allowed for variable values in bytes	192 GB	2 GB	8 MB
Start-up variables that are calculated only in the beginning of the simulation	x	x	x
Reference variables	x	x	x
Random variables	x	x	x
Collaboration, tracking who last changed a variable, unit or range	x		
Collaboration between several modelers through components and submodels	x	x	x
Hierarchical modeling with an unlimited depth of submodels	x	x	x
Layout, alignment, grids and similar features to support nice-looking diagrams	x	x	x
Shortcuts to variables as well as slicing of variables across multiple diagrams	x	x	x
Full zoom capabilities for diagrams	x	x	x
Levels defined as reservoirs	x	x	x
Number formatting	x	x	x
Permanent variables remembering user input from one simulation to the next	x	x	x
Shared range element names	x	x	x
Number of elements in Dynamic Ranges	Unlim.	100	100
Quality assurance during modeling			
Examine relationships among model variables with the Dependents list and the Precedents list	x	x	x
Examine value(s) of selected variable(s) with the Value Inspector	x	x	x
Performance Monitoring to help optimize the simulation's performance	x		
Auto reports (number/graph) on variables for development and debugging of models	x	x	x
Integrated unit of measurement system ensuring unit consistency in models	x	x	x
GoTo Variable (find all instances of variables in diagrams and equations)	x	x	x
Go To undefined and problematic variables	x	x	x
Plural and singular names for units of measurement	x	x	x



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MODELING SUPPORT			
Optimization and risk analysis			
Optimization	X	X	
Risk Management	X	X	
Risk Assessment and Sensitivity Analysis	X	X	
Scenario Control	X	X	X
Edit series of decisions in the Time Graph	X	X	X
Data Connectivity			
Connect to databases like Oracle, SQL Server & Access (using the Database Dataset)	X		
Connect to Microsoft® Excel (using the Spreadsheet Dataset)	X	X	X
XLRANGE keyword defines dynamic ranges from Excel data	X	X	X
XLDATA function returns Excel data (supports easy creation by drag-and-drop from Excel)	X	X	X
Connect to internal Studio data (using Studio Dataset)	X	X	X
Connect to other data sources through scripts in Sidekick windows and Show Dialog actions	X	X	X
DBRANGE keyword defines dynamic ranges from the result of a database query	X	X	X
DBRANGEDATA function returns database data, to be used with DBRANGE	X	X	X
DBPIVOTDATA function allows for pivot aggregation of a database table	X	X	X
Connect to file databases through database functions	X	X	X
Connect to server databases through database functions	X		
Connect to SAP® NetWeaver BI (using the SAP BI Dataset)	X		
Built-in modeling assistance and support			
Sample models showing use of Studio features	X	X	X
Wizards for creating datasets and connections	X	X	X
Project Wizard assistance when creating new projects	X	X	X
Tutorial on how to connect to spreadsheets	X	X	X
Project Assistant to help in getting started creating models	X	X	X
Active assistance system during definition of variables	X	X	X
Assistance with units when defining flow rate	X	X	X
Automatic access to unit and range wizards while constructing equations	X	X	X
Support for multiple screens	X	X	X
Context-sensitive help on all property pages and dialog boxes	X	X	X
Text-based Find and Replace in Equations view	X	X	X
Help available in Task Window (with "How do I..." section)	X	X	X
User interface customization (Normal and Advanced workspace schemes)	X	X	X
Easy-to-use Function Wizard	X	X	X
USER INTERFACE AND PRESENTATION MODE			
Reports, controls and printing			
Multiple user interface diagrams per model	X	X	X
Time graphs and time tables with summarize possibilities (average, min, max, etc)	X	X	X
Slider bars and gauges for both input and output	X	X	X
Table controls for spreadsheet-like data input and output	X	X	X
Chart controls for input and output of array values	X	X	X
Buttons, radio buttons, check boxes, combo boxes and lists for user interface creation	X	X	X
Scatter graphs (also known as XY graphs and Phase Plots)	X	X	X
Freeform drawing, frames and texts	X	X	X
Use of pictures, as well as color, font and line control on all variables and objects	X	X	X
Background screen fill with pictures, colors and patterns	X	X	X
Enhanced page setup & printing support	X	X	X



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USER INTERFACE AND PRESENTATION MODE			
Navigation and scenario control			
Hyperlinks and bookmarks to link to other diagrams, files or Internet pages	X	X	X
Action buttons allow for execution of commands and other actions	X	X	X
Excel Write actions allow saving values to Excel	X	X	X
Check Condition action allow you to perform other actions depending on a condition	X	X	X
Cue points to rewind simulations to a previous point in time	X	X	X
Index variables for ranges give compact user interface diagrams when working with arrays	X	X	X
Events combined with actions allow for interactive simulations	X	X	X
Reference runs for comparing simulation results	X	X	X
Animation of reference data in output objects when comparing multiple runs	X	X	X
Manage Dynamic Range action	X	X	X
Show Dialog action shows an HTML-based dialog when executed	X	X	X
Access to the Simulation Engine Object Model from scripts	X	X	X
Presentation Mode			
Build a Presentation containing user interface for your simulation	X	X	X
Augment a Presentation with up to four Presentation Sidekicks with HTML content	X	X	X
Hide the toolbar and status bar when you show a Presentation	X	X	X
Web-browser-like navigation buttons for home, forward, backward, links, etc.	X	X	X
Save and load scenarios in a Presentation	X		
Selection of project language from a Presentation	X	X	X
Printing from a Presentation	X	X	X
Model Distribution			
Project help file, for example HTML-based documentation	X	X	X
Construction of models to be distributed with Studio 10 Executive or Studio 10 Cockpit*	X		
Construction of models to be distributed with Studio 10 SDK**	X		
Enable Active Content (VBFUNCTION, etc.)	X	X	
TECHNICAL SPECIFICATIONS			
Integration, operating systems, development platform and file conversion			
64-bit Windows Platform Version	X	X	X
Unicode application	X	X	X
Microsoft® Windows*** XP, Vista, 7, or 8	X	X	X
Import of Powersim Constructor models using a wizard	X	X	X
Saving files with Studio 9, Studio 8, Studio 7 or Studio 2005 file format	X	X	X

* Companion products with Premium, to let corporate users run simulations in Presentation Mode

** SDK integrate simulations in custom-designed software applications using C++, VB, ASP, HTML, etc.

*** Studio 10 also runs in Windows on Apple computers, while connecting to Excel needs Excel for Windows

Powersim Software AS presents this list on an as-is basis and gives no promises or guaranties that the information in the list is complete or free from errors.

Powersim Software AS, Litleåsvegen 79, N-5132 Bergen, Norway. Tel: +47 55 60 65 00, Fax: +47 55 60 65 01.

sales@powersim.no