

## DDS-CAD Electrical

<b>Includes all features from DDS-CAD Building</b>	<b>02</b>	<b>10</b>	<b>11</b>
Intelligent BIM/CAD core (for details see functional overview DDS-CAD Building)	●	●	●
Intelligent building model (for details see functional overview DDS-CAD Building)	●	●	●
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<b>Discipline specific features</b>	<b>02</b>	<b>10</b>	<b>11</b>
Complete 2D and 3D electrical design features for: - Low voltage, electromobility, PA, aerial, measuring & control, movement and presence detector system - Lighting design, KNX, data, telephone, nurse call and intercom systems - Fire, security and alarm systems, video surveillance and access control	●	●	●
Intelligent multi-storey design of cable management systems: cable ladders, trays, ducts, conduits and floor trunking	●	●	●
Bi-directional interface with DIALux and Relux for advanced light calculations	●	●	●
Simulation and planning of detection areas for movement and presence detectors	●	●	●
Design of lightning protection and earthing systems as well as equipotential bonding	●	●	●
Intelligent circuit selection with circuit and component dimensioning	●	●	●
Diversity factor for determination of load performance per circuit and distributor supply	●	●	●
Intelligent multi-storey cable and cable trunking function with automatic cable length calculation	●	●	●
Automatic calculation of end component performance over sub distributors up to the main supply	●	●	●
Voltage drop calculation with automatic real-time load calculation	●	●	●
Automated model quality checks, cross-discipline collision detection and real-time clash prevention	●	●	●
Control function for non-connected components	●	●	●
Associative and freely configurable component, cable and circuit labeling	●	●	●
Automatic and fully configurable legends	●	●	●
Intelligent exchange between model and distributor database; automatic update of electrical diagrams	●	●	●
Automatic system diagrams for power supply, fire detection, emergency lighting and data network systems			●
Bi-directional intelligent KNX interface to ETS via the app 'ProjectDataExchange' from IT GmbH			●
Intelligent exchange of 3D building model with KNX components to visualization software Elvis			●

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<b>Distribution board documentation</b>		<b>02</b>	<b>10</b>	<b>11</b>
Automatic creation and update of sheet, revision and circuit lists		●	●	●
Automatic creation and update of single line circuit diagrams		●	●	●
Bi-directional interface with test and measurement equipment from GMC-I		●	●	●
Extensive technical database with intelligent symbols, components and circuit macros		●	●	●
Flexible presentation and intelligent configuration options for sheets and circuit diagrams		●	●	●
Automatic numbering of components and terminals including cross-referencing		●	●	●
Automatic visual warning of under dimensioned components		●	●	●
Automatic prevention of double connections for contacts, components and terminals		●	●	●
Automatic creation and update of multi-line circuit diagrams			●	●
Complete distributor board layout in 2D and 3D with calculation of spacing units			●	●
Automatic distributor views (side, interior, door, 3D view), punch patterns, mimic diagrams			●	●
Automatic tabular patch panel overview for network and data systems			●	●
Intelligent KNX layouts for automatic circuit diagrams and overview of modular devices				●
Graphical PLC card overview with automatic cross-referencing of inputs and outputs				●
Creation of measurement, control and regulation technology diagrams and data network cabinet views				●

### Add-on modules for DDS-CAD Electrical

EL-AS	Automatic system diagrams for power supply, fire detection, emergency lighting and data network systems (included in EL-11)
DDS-PS	Polysun Inside