PowerSines
Smart Energy Efficiency

ComEC VS

The Smartest Energy Controller and Voltage Optimiser

ComEC dynamically controls and stabilises the voltage provided to all loads in the facility generating immediate energy savings of up to 18%, improving power quality, as well as reducing stress on electrical equipment which extends its lifetime and minimizes its downtime and maintenance costs.

- Integrated Energy Management System (EMS)
- Highest savings & minimum losses with INV™ technology
- Shortest ROI with consistent saving

Voltage Regulation Range

ComEC regulates the supplied output voltage, in the range of 0% - 10% at 1% steps and stabilises it at the level where equipment will work most efficiently. The output voltage level can be set by the user.

Smart Operation

ComEC is composed of several transformation cells controlled by a microprocessor. Each transformation cell utilises PowerSines Induced Negative Voltage (INV™) technology for dynamic voltage optimisation.

Connecting and disconnecting transformation cells enables different voltage reduction levels and stabilises the output voltage.

Remote Energy Management System

The **ComEC** parameters can be configured either by using the built-in keypad or remotely through a GSM Gateway.

Data Communications & Controls:

Remote Control	GPRS module for connectivity with PowerSines Remote EMS system, or Modbus for integration with 3rd party systems

All-in-One device:

Dynamic Voltage Stabilisation at user-defined voltage level

Online Measurements of all electric network parameters

Automatic Measurement of Saving Figures sliced by days, weeks, months and years

Full Remote Control with PowerSines EMS and 3rd parties

Built-in Manual Changeover Switch for emergency situations

Internal Automatic Bypass protections against over load, over temperature, missing phase or under voltage

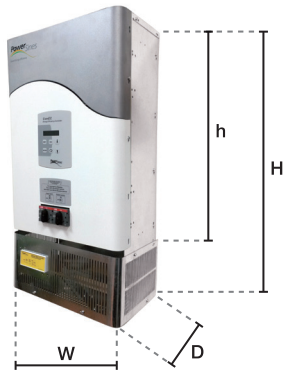
Voltage Control Windows for two interval voltage level and saving settings during a 24-hr period

High Efficiency and Low Losses lead to minimal heat dissipation

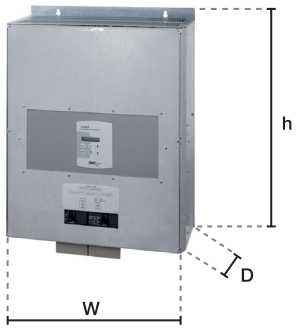
Diagnostic Features for Analysis of internal temperatures, device status, operation times, and more

ComEC Product Models

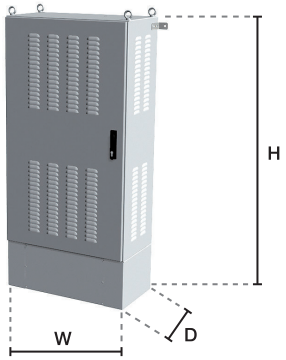
ComEC 63A - 125A



ComEC 160A



ComEC 250A - 400A



ComEC 630A - 800A

Product Name	Catalogue Number	*ΔV	A	KVA	** Dimensions (mm)				Weight (kg)	Cross Section
					h	D	W	H		
ComEC VS 63A	0C2A-000630-380	9%	3x63	44	652	243	397	781	56	25
ComEC VS 80A	0C2A-000800-380	9%	3x80	55	652	243	397	781	56	25
ComEC VS 125A	OC2A-001000-380	9%	3x125	86	660	297	537	804	74	50
ComEC VS 160A	0C2A-001600-380	9%	3x160	110	781	291	586	951	127	70
ComEC VS 250A	0C2A-002500-380	9%	3x250	173	-	447	814	1756	235	M12 Ring Crimp Terminal
ComEC VS 320A	0C2A-003200-380	9%	3x320	242	-	447	814	1756	265	
ComEC VS 400A	0C2A-004000-380	10%	3x400	276	-	650	900	1800	475	
ComEC VS 630A	0C2A-006300-380	10%	3x630	435	-	750	1500	1840	900	
ComEC VS 800A	0C2A-008000-380	10%	3x800	550	-	750	1500	1840	1000	

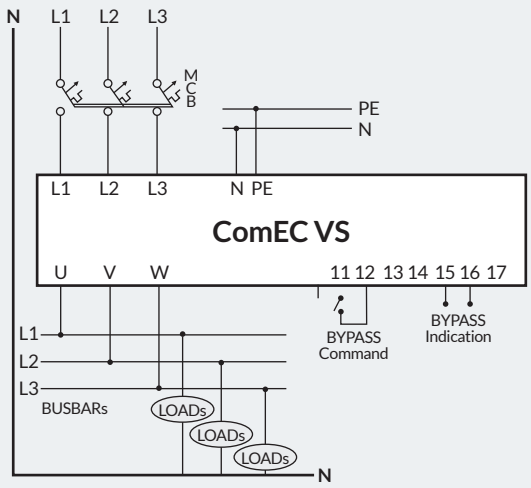
** "ΔV" Stands for Voltage Stabilization ** Weights and dimensions are subject to change*

Technical Specifications

Input Voltage	3x230VAC ± 10%
Voltage Regulation	1%
Frequency	50Hz
Efficiency	99%
IP Class	IP 20
Ambient Temperature	-20°C - +40°C
Measurements	A, V, kW, PF, kWh
Networks	TN-S

** Specifications are subject to change without notice*

Electric Diagram



** See the ComEC Installation Manual for additional electric configurations*

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