



1:1
PHASE

3:3
PHASE

FREQUENCY CONVERTERS

10-120 kVA



3 LEVEL
FC



TOWER



EASY
SERVICE



BATTERY
CONNECTION



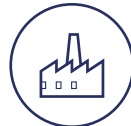
MARITIME



MEDICAL



TRANSPORTATION



INDUSTRY



TELE-
COMMUNICATIONS



SPECIAL PRODUCTS

FREQUENCY CONVERTERS

CNV Series 1 and 3 phase output frequency converters are completely microprocessor controlled products to provide quality energy to critical loads. It can provide energy at the frequency required by any device fed from the network.

It can be used in sectors where different and heavy conditions required and it can be specially designed for the input/output values you need.

- ♦ 3-Level IGBT Technology
- ♦ Multiprocessor Digital Control
- ♦ 256 detailed real-time event logs
- ♦ Data analysis via the user panel
- ♦ Battery connection feature
- ♦ RS232, RS485 communication port and dry contact outputs
- ♦ Special production input-output values according to needs
- ♦ Models with 1-phase or 3-phase output
- ♦ SNMP compatible communication
- ♦ Remote monitoring and management software

FREQUENCY CONVERTER CNV SERIES

MODEL	CNV 3310U1	CNV 3315U1	CNV 3320U1	CNV 3330U1	CNV 3340U1	CNV 3360U1	CNV 3380U1	CNV 33100U1	CNV 33120U1	
	CNV 3310U2	CNV 3315U2	CNV 3320U2	CNV 3330U2	CNV 3340U2	CNV 3360U2	CNV 3380U2	CNV 33100U2	CNV 33120U2	
Nominal power (kVA)	10	15	20	30	40	60	80	100	120	
General										
Technology	3-Level, Double conversion Online VFI-SS-111									
Waveform	Sinusoidal									
Architecture	Stand Alone or Optional Parallel									
Input										
Input Voltage	380, 400, 415 Vac 3Ph+N+PE or 190, 200, 208, 220 Vac 3Ph+N+PE (Optional)									
Input Frequency	50/60 Hz (Up on order)									
Voltage Tolerance (%100 load)	%(-20) %(+20)									
Input Power Factor	≥0.99									
Input Current Harmonic	≤3%									
Output										
Output Voltage	380, 400, 415 Vac 3F+N+PE veya 190, 200, 208, 220 Vac 3Ph+N+PE (Optional)									
Output Voltage Tolerance	±%1									
Overall Efficiency* (AC-AC)	≥%90									
Nominal Output Frequency	50/60 -400 Hz ±%0.2 free run (Up on order)									
Crest Factor	3:1									
Output Power Factor	1 (U1 model) / 0,9 (U2 model)									
THD of Output Voltage	≤2% (Linear load) & ≤5% (Non-linear load)									
Communication and management										
LCD Display	Graphical Icd screen, Led bar status									
Communication Ports (Optional)	RS485, Genset, SNMP, GSM Modem, Relay Contacts, Input Contacts, Modbus and USB									
Battery Temperature Sensor Contact	Available									
Emergency Power Off (Epo)	Available									
Accessories (Optional)	Galvanic Isolation Transformer, Remote Monitoring Panel									
Ambient conditions										
Operating temperature (°C)	0°C - 40°C									
StorageTempature	-15°C/+ 55°C									
Proposed Temp. to Extend Battery Life	20 - 25°C									
Relative Humidity (%)	< 95% (condensing)									
Altitude	< 1500m									
Noise (at 1 meter)	<55 dBA			<58 dBA				<60 dBA		
Protection Class	IP20 (Higher IP Ratings are optional)									
Compliance										
Reference Product Standards	EN 62040-1 (Safety), EN 62040-2 (EMC), EN 62040-3 (Performance)									

*Depends on Input/Output voltage conditions and power

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INNOVATIVE ENERGY SYSTEMS

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The company reserves the right to change specifications and designs without notice.