

# Online GVN-DSP Series

UPS



## On-Line "Double Conversion" Technology, DSP Controlled IGBT Rectifier UPS 3 phase Input / 3 phase Output 10 to 400kVA

- IGBT rectifier / - IGBT inverter / - DSP controlled processor / - Wide input voltage range
- Active input power factor correction, PFC (PF 0,99) / - Compatible with generator
- Active harmonic correction (THDI ≤ 3%) / - Energy saving mode (ECOMODE)
- Backup and power boost thanks to parallelism feature - Intelligent battery charging system
- Easily synchronized with external sources / - Static and manual bypass as standard
- Galvanic isolation and special voltage application options / - Increaseable battery supply time
- Communication with computer and network systems (SNMP) / - Low installation and operating cost
- 2 years full warranty in accordance with ISO 9001, ISO 14001 and CE standards

### GVN-DSP Series Technical Specifications

MODEL	GVN-DSP 33010	GVN-DSP 33015	GVN-DSP 33020	GVN-DSP 33030	GVN-DSP 33040	GVN-DSP 33045	GVN-DSP 33060	GVN-DSP 33080	GVN-DSP 33100	GVN-DSP 33120	GVN-DSP 33160	GVN-DSP 33200	GVN-DSP 33250	GVN-DSP 33300	GVN-DSP 400	
Power (kVA)	10	15	20	30	40	45	60	80	100	120	160	200	250	300	400	
Nominal Active Power (kW)	8	12	16	24	32	36	48	64	80	96	128	160	200	240	320	
<b>INPUT</b>																
Number of phase	3P + N + PE															
Nominal voltage	380V / 400V / 415V															
Voltage Tolerance (100% load)	-%15 +%27															
Voltage Tolerance (64% overload)	-%45 +%27															
Voltage tolerance (42% load)	-%64 +%27															
Nominal Frequency (Hz)	50 Hz / 60 Hz															
Frequency Tolerance (Online Working)	±%10															
Input Current THD *	≤%3															
Input Power Factor	0.99															
<b>OUTPUT</b>																
Number of phase	3P+N+PE															
Output Power Factor	0,8															
Nominal Voltage	380V / 400V / 415V															
100% overload Static Voltage Regulation Linear Load (online & battery mode)	<%1															
% Voltage THD (linear load)	<%2															
Crest Factor	3:1															
Frequency (Hz)	50 Hz / 60 Hz															
Frequency Tolerance	± %0.01															
Overload	125% load for 10 minutes, 150% load for 1 minute															
Yield*	Up to 95%															
<b>STATIC BY-PASS LINE</b>																
Number of Phase	3P+N+PE															
Voltage Tolerance for Bypass Operation	± %10															
Frequency Tolerance for Bypass Operation	47 Hz - 53 Hz (Adjustable)															
<b>BATTERY</b>																
Type	Maintenance-free dry type															
Number of battery	62 pcs (2x31)										60 pcs (2x30)					
Battery Protection	Deep Discharge Protection, Heat Compensated Battery Charging															
Battery Test	Standard (Automatic and Manual)															
<b>DISPLAY</b>																
LED Display	Mains, Bypass, Battery, Inverter, Load, Fault Indicators															
LCD Display	Load Percentage, Input Output Frequency, Voltage and Current, Bypass Voltage, Battery Voltage & Current, Temperature, Alarms															
<b>COMMUNICATION</b>																
Interface (Communication Port)	RS232 & RS422															
Dry Contact Connection	Mains Fail, Battery Low, Bypass Operation, Output Fail															
Others	EPO (Emergency Disconnect Button), Generator Interface															
<b>ENVIRONMENTAL CONDITIONS</b>																
Storage Temperature Range (° C)	-25 ° C ± 55 ° C (recommended temperature for long battery life of 15 - 40 ° C)															
Operating Temperature Range (° C)	0 - 40 ° C (recommended temperature for long battery life of 20 - 25 ° C)															
Humidity	0-95% (without choking)															
Working Height (Maximum m.)	1000 m															
Protection Class	IP20															
<b>PHYSICAL PROPERTIES</b>																
Output Power (kVA)	10	15	20	30	40	45	60	80	100	120	160	200	250	300	400	
Dimensions (cm) LxDxH	40x78x107				52x90x130			67x73x163			85x78x182		98x87x195		134x108x195	
Weight (kg)	100	114	116	122	180		202	253	285	405	522	735	750	825	910	
<b>STANDARDS</b>																
EN 62040-1 -1 (Security), EN 62040-2 (EMC), EN 62040-3 (VFI-SS-111)																
<b>OPTIONS</b>																
Paralleling Kit, SNMP (Internal or External), External by-pass, Remote Monitoring Panel, Isolation Transformer, Battery Cabinet, IP21 Protection Class																

\* The device depends on the power and ambiens conditions