

ZN
Series



**SUBMARINE STATIC CONVERTER
TECHNICAL SPECIFICATIONS**

MODEL	ZN-INV-1030-60	ZN-INV-3025-400	
		OUTPUT 1	OUTPUT 2
Apparent Power	30 kVA	15 kVA	10 kVA
Active Power	24 kW	12 kW	8 kW
INPUT			
Voltage Range	160-360 Vdc		
OUTPUT			
Voltage	115Vac, 1 Phase 2 Wires (W/O		115Vac, 3 Phase 3
Voltage Setup Range	±5%		
Current	261 Aac	130 Aac	50 Aac
Wave Form	%100 Sinusoidal		
Voltage Tolerance	± %1		
Frequency	60 Hz	400 Hz	
Frequency Tolerance	± %0, 1		
Efficiency@Full Load	>85%		
Power Factor	0.8		
THDv	<%3		
Crest Factor	3:1		
PROTECTIONS			
Voltage Protection	High/Low Voltage for Input and Output, Output Phase Interruption, Output Short Circuit		
Output DC Protection	Electronic Protection		
Frequency Protection	Low/High Frequency for Output		
Temperature Protection	Yes		
Over Load Protection	1 Hour for %100 - %110 ; 10 Minutes for %110 - %130; 1 Min. for %130 - %150; >%150 Inverter OFF		
Over Current Protection	Electronic Protection and Fuse		
Humidity Protection	Internal Built in Heater		
GENERAL			
Front Panel	Graphic LCD,		
LCD Indicators	Input Voltage and Current, Output Current, Voltage and Frequency, Cabinet Inner Temperature, Operating Time		
LED/Illuminated Indicators	General Failure, Humidifier ON		
Operating Class	S1 (Continuous Operating)		
Topology	High Frequency PWM, IGBT		
ENVIRONMENTAL			
Operating Temperature	0 ~ 45 °C		
Relative Humidity	%10 - %95		
Protection Class	IP23		
Audible Noise (from 1 m)	<60 dBA		
PHYSICAL			
Dimensions (WxDxH) mm.	550x520x1100		
Weight (kg)	284	204	
Operating Gradient	± 60°C Gradient, ± 45°C Trim		
Color	RAL7032		
STANDARDS			
Earthing	MIL-STD-1310-G		
EMC/EMI	MIL-STD-461E: CE 101,CE 102,CS 101, CS 114, CS116, RE 101, RE 102, RS 101, RS 103		
Short Circuit	VDE 0160		
Shock Resistance	MIL-S-901D		
Vibration Resistance	MIL-STD-167-1		

GENERAL FEATURES

- Wide DC Input Voltage Range
- 3 and 1 Phase Sine Wave Output (Optional without Neutral)
- Adjustable Output Voltage up to %5
- Automatic Dehumidification Unit
- Advanced LCD Panel
- Audible and Visual Alarms
- Advanced Protection Systems
- Shock and Vibration Resistance In Military Standards

SUBMARINE STATIC CONVERTER

This converter is produced according to the Military standards and provides different AC Output Voltages at different frequencies in only one cabinet. Converter can resist against to the very high shock and vibration values which are usual for Navy due to very rugged and strong chassis