

## 1. Genset 640 kVA - 50Hz



## POWERED BY



**VOLVO  
PENTA**



## 2. Technical informations

Generator Specifications	Unit	Description		
Regulation class		ISO8528		
Frequency	Hz	50		
Power Factor		0.8		
Three Phase Voltage	Vca	380 - 220 / 400 - 231		
Operating System		Stand-By	Prime	COP
Genset Power	kVA / kW	640 / 512	580 / 464	400 / 320
Diesel Engine Power	CV	767.2	698	488.8
Fuel Tank		Removable in the 400 liters base		
Consumption $\pm 5\%$	l/h	131.8	118	83
Fuel Tank Autonomy	h	3.4	3.8	5.4
Battery		2 x 12V - 180Ah - 1000CCA		

Engine Specifications	Unit	Description
Model		TAD1642GE-B
Brand		VOLVO
Application		Stationary
Rotation	rpm	1500
Configuration		04- stroke / 6 Cylinders in line
Bore x Stroke	mm	144x165
Aspiration Type / Injection System		Turbo Aftercooler / Eletronic Direct
Displacement	l	16.12
Compression Ratio		17.0:1
Alternator, standart equipment	A	80
Starter, standart equipment	Vcc - kW	24 07
Cooling System		Water + Air + Blowing Ventilation System
Coolant Total Capacity	l	60
Coolant Specification		Havoline Xtended Life Premix 50/50
Lube Oil Specification		Volvo Penta Diesel Engine Oil VDS-3, VDS-4, VDS-4.5
Lube Oil liter Capacity with filter	l	48
Lube Oil Filter Replacement Interval	h	600
Fuel Type Specification		S10
Fuel Filter		Pre-FilterMain
Fuel Filter Specification		Paper Filter element 10000μPaper Filter element 5000μ
Oil Change Intervals	h	600
Preheating resistance		2000W - Standart to automatic Genset

Alternator Specification	Description
Type	Brushless
Excitation	With Auxiliary Coil
Voltage Regulator	Electronic incorporated with dynamic response from 8 up to 500ms ; static control of 0,5%
IP Rating	IP23
Isulation Class	180°C (Class H)
Harmonic Distortion Without Load	< 5%
Short Circuit Current	3x IN during 10 s
Leads	12
Connection Box	Connectable in 3 Tensions
Bearing	Single
Cooling	Air
Mounting types	B15T
Winding Pitch	Shortened 2/3
Impregnation	Industrial Salinity Resistant with Salt Concentration =< 1 g/m3

Command Panel Specifications	Unit	Description
Type		Manual Automatic
Single Without Ramp		DEEP SEA DS4520
Single With Ramp		DEEP SEA DS8620
Parallel Without Ramp		DEEP SEA DS8610 + DS331
Parallel With Ramp		DEEP SEA DS8610 + DS8660
Three Phase Voltage	Vca	380 - 220 / 400 - 231
IP Rating		IP-23
Dimensions (H x W x D)	mm	1200 x 600 x 255
Protection		Manual thermomagnetic circuit-breaker - tripolar fixed
Parallelism Connection between Generators		Motorized Circuit Breaker
Battery Charger		YES NO

Assembly Specifications	Unit	Description
Type		Open Skid Canopy
Exhaust System		Industrial 8" and stainless-steel bellows Hospitaller 8" and stainless-steel bellows
Width (W)	mm	1200 1500
Length (L)	mm	3700 5000
Height (H)	mm	2200 2400
Empty Weight	kg	5500 6400
Impregnation		Polyester powder electrostatic (base in black color and Canopy in blue color)
Impregnation type		Textured
Salt Spray Resistance Assembly Specifications		Minimum 500h (on phosphatized plate)
Paint Thickness		80 µm [microtexturized]
Levels of noise	1,5 m	dB(A) 119 85
	7,0 m	dB(A) 101 NA

NA - Not Available

Updated: 17/09/2020

