

## 1. Genset 500 kVA - 50Hz



POWERED BY



**VOLVO  
PENTA**



## 2. Technical informations

Generator Specifications	Unit	Description		
Regulation class		ISO8528		
Frequency	Hz	60		
Power Factor		0.8		
Three Phase Voltage	Vca	380 - 220 / 400 - 231		
Operating System		Stand-By	Prime	COP
Genset Power	kVA / kW	500 / 400	456 / 365	316 / 252
Diesel Engine Power	CV	599	540.4	377.5
Fuel Tank		Removable in the 400 liters base		
Consumption $\pm 5\%$	l/h	102.3	91.40000000000001	64.59999999999999
Fuel Tank Autonomy	h	3.9	4.3	6.9
Battery		2 x 12V - 150Ah - 900CCA		

Engine Specifications		Unit	Description	
Model			TAD1344/45GE-B	
Brand			VOLVO	
Application			Stationary	
Rotation		rpm	1500	
Configuration			04- stroke / 6 Cylinders in line	
Bore x Stroke		mm	131x158	
Aspiration Type / Injection System			Turbo Aftercooler / Eletronic Direct	
Displacement		l	12.8	
Compression Ratio			18,1:1	
Alternator, standart equipment		A	80	
Starter, standart equipment		Vcc - kW	24 - 07	
Cooling System			Water + Air + Blowing Ventilation System	
Coolant Total Capacity		l	44	
Coolant Specification			Havoline Xtended Life Premix 50/50	
Lube Oil Specification			SAE 15W40 / API CI-4 / ACEA E7-08	
Lube Oil liter Capacity with filter		l	36	
Lube Oil Filter Replacement Interval		h	200	
Fuel Type Specification			S10	
Fuel Filter			Pre-Filter	Main
Fuel Filter Specification			Paper Filter element 10µm	Paper Filter element 5µm
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	1180 1180
Length (L)	mm	3693 4640
Height (H)	mm	1810 2285
Empty Weight	kg	3346 4019
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) 117 85
	7,0 m	dB(A) 101 NA

NA - Not Available

Updated: 17/09/2020

