

## Generating Rates

		Prime	Standby
Power	kVA	455	500
Power	kW	364	400
Current	(cos Phi=0,8) A	650	722
Standard Voltage	V	400/231	400/231
Revolution Per Minute	r.p.m	1500	1500
Rated At Power Factor	Cos Phi	0,8	0,8

## Standard Features

- ✓ 4 stroke 1500RPM, water cooled heavy duty diesel engine
- ✓ Dry type replacable air filter
- ✓ Heat-resistant radiator for 50 °C
- ✓ Flexible oil pipes and oil draining valve
- ✓ Pre-heater 4 poles synchrontype, single bearing, brushless alternator
- ✓ Batteries and cables
- ✓ Electrostatic paint coated, steel, welded chassis
- ✓ Fuel tank housed in the chassis Industrial type silencer
- ✓ Electronic battery charger
- ✓ Electrical wiring diagram
- ✓ User manual and operating manual
- ✓ Protection system on manual run
- ✓ Lubrication oil and anti – freeze

## Optional Equipments

- ✓ Soundproof canopy
- ✓ Automatic transfer switch
- ✓ Circuit Breaker
- ✓ Trailer
- ✓ External fuel tank
- ✓ Electronic governor
- ✓ Heating system for fuel tank
- ✓ Oil heater
- ✓ Fuel filling system (Automatic / Manual)
- ✓ Analog indicators
- ✓ 1 Phase - 3 phase switch plugs
- ✓ Alarm system for fuel level
- ✓ Remote control and monitoring

**Prime Power :** Supplying of electrical power at variable load for an unlimited number of hours in the event of normal utility power failure according to ISO8528-1. 10% over load capability is available.

**Stand By Power :** Supplying of electrical power at variable load, in the event of normal utility power failure according to ISO8528-1. This rating is maximum power, no overload capability is available.

## Engine Specifications

Brand		VOLVO PENTA
Model		TAD1345GE
Engine Power	(kWm / hp)	431/586
Revolution Per Min	(r.p.m)	1500
Total Displacement	(L)	12,78
Cylinders Orientation		6 Vertical In-line
Broke x Stroke	(mm x mm)	131 x 158
Compression Orientation		18,1:1
Governor Type		Electronic
Aspiration System		Turbo CAC
Injection		Direct
Cooling		Water Cooled
Electrical System	(VDC)	24
Lub-oil Capacity	(L)	36
Engine Coolant Capacity	(L)	46
Fuel Tank Capacity	(L)	576
Maximum Exhaust Temperature	(°C)	571
Maximum Exhaust Gas Flow	(m3/h)	3498
Maximum Allowed Back Pressure	(kPa)	5
Cooling Air Flow	(m3/min)	27,6
Fuel Consumption 50 %	(L/h)	50,4
Fuel Consumption 75 %	(L/h)	74,9
Fuel Consumption 100 %	(L/h)	99,3

✓ Replacable cylinder jacket

✓ Dry type replacable air filter

✓ Heat-resistant radiator for 50 °C

## Alternator Specifications

Standard Voltage	(V)	400/231
Frequency	(Hz)	50
Stationary Voltage Regulation	(±)	1
Short Circuit Current		300
Insulation		H
Protection		IP 23
Efficiency	(%)	93,6
Overloading		1 Hour - %110
Rated At Power Factor	(cos Phi)	0,8
Total Harmonic Distortion Rate		2
Connection Style		Star
Number of Pole		4
Number of Bearing		Single

✓ Self-cooled

✓ Electronic type automatic voltage regulator (AVR)

✓ 4 poles, self-excitation, brushless, synchrontype alternator

## Dimensions Without Canopy and Weight

WIDTH x LENGTH x HEIGHT	mm	1500x3300x1950
Wet Weight	kg	3107



## Dimensions With Canopy and Weight

WIDTH x LENGTH x HEIGHT	mm	1500x4300x2410
Wet Weight	kg	3761



## Control Panel Features

- ✓ Diesel and gas genset support
- ✓ 400Hz operation support
- ✓ 400 event logs full snapshot
- ✓ Multiple Automatic test program
- ✓ 3 level configuration password
- ✓ 128x64 graphical LCD display
- ✓ Downloadable language
- ✓ Waveform display of V&I
- ✓ Harmonic analysis of V&I
- ✓ Synchroscope & check synch
- ✓ 16 Amp MCB & GCB outputs
- ✓ 8 configurable digital outputs
- ✓ Outputs expandable to 40
- ✓ 4 configurable analog outputs
- ✓ Battery charge run enabled
- ✓ Weekly Operation Schedule
- ✓ Dual mutual standby with equal aging of gensets
- ✓ Manual speed fine adjust some ECU's
- ✓ Automatic fuel pumpcontrol
- ✓ Disable protection feature
- ✓ Excess protection power
- ✓ Reverse power protection
- ✓ Overload IDMT protection
- ✓ Load shedding, dummy load
- ✓ Multiple load management
- ✓ Waveform display of V&I
- ✓ Battery back-up real time clock
- ✓ Idle speed control
- ✓ All parameters front panel editable
- ✓ Multiple nominal conditions
- ✓ Contactor & MCB drive
- ✓ 4 quadrant genset power counters
- ✓ Mains power counters
- ✓ Fuel filling counter
- ✓ Fuel consumption counter
- ✓ Free configuration software
- ✓ Allow SMS controls
- ✓ Mobile genset support
- ✓ Automatic GSM geo-location
- ✓ GPS connectivity (USB & RS232)
- ✓ Modem & ethernet diagnostic
- ✓ Configurable through USB, RS-485, Ethernet and GPRS
- ✓ Ready for central monitoring Ethernet and GPRS