

# Cargo Equipment Solutions, Inc.

12301 SW 128 Court, Unit 104, Miami, Florida 33186  
 Phone: 305-259.4537 / 305-259.4538 / Fax: 305-259.4539 / U.S. Toll Free: 877-813.0251  
 Email: sales@cargo equipmentsolutions.com

## Diesel Generating Set V142

MODEL	V142-60Hz
Standby Power (60Hz)	114KW / 142KVA
Prime Power (60Hz)	104KW / 130KVA

### Standard Features

#### General Features:

- Engine (VOLVO TAD532GE)
- Radiator 55C max, fans are driven by belt, with safety guard
- 24V charge alternator
- Alternator: single bearing alternator IP23, insulation class H/H
- Absorber
- Dry type air filter, fuel filter, oil filter
- Main line circuit breaker
- Standard control panel
- Oil drain pump
- Two 12V batteries, rack and cable
- Ripple flex exhaust pipe, exhaust siphon, flange, muffler.
- User manual.

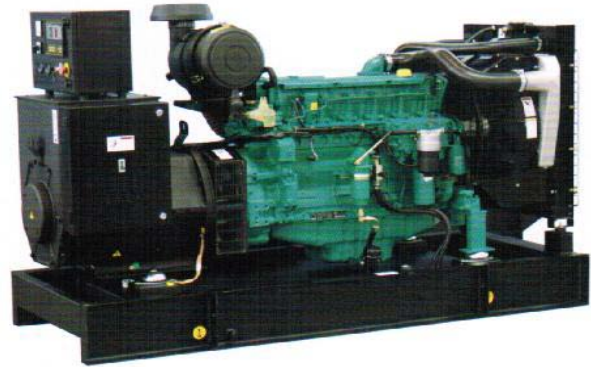


PHOTO FOR REFERENCE ONLY

### Generator Ratings

Voltage	HZ	Phase	P.F (COS $\phi$ )	Standby Amps	Standby Ratings (KW/KVA)	Prime Ratings (KW/KVA)
480/277	60	3	0.8	171	114/142	104/130
460/266	60	3	0.8	178	114/142	104/130
440/254	60	3	0.8	186	114/142	104/130
416/240	60	3	0.8	197	114/142	104/130

**Prime Power (PRP):** Prime power is available for an unlimited number of annual hours in variable load application, in accordance with GB/T2820-97 (eqv ISO8528) ; A 10% overload capability is available for a period of 1 hour within a 12-hour period of operation.

**Standby Power Rating (ESP):** The standby power rating is applicable for supplying emergency power for the duration of a utility power interruption. No overload, utility parallel or negotiated outage operation capability is available at this rating.

### Sales Promises

Cargo Equipment Solutions, Inc provides a full line of brand new and high quality products. Each and every unit is strictly factory tested.

Warranty on equipments are: One (01) year or 1000 Hours of standard working condition, what ever comes first. Service and parts are available from Cargo Equipment Solutions, Inc.

**Specifications may change without notice.**

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## ***Diesel Generating Set V142***

### **ENGINE DATA**

Manufacturer / Model:	VOLVO TAD532GE, 4-cycle
Air Intake System:	Turbo
Fuel System:	Directly Injection Fuel System, Bosch Pump
Cylinder Arrangement:	4in line
Displacement:	4.76L
Bore and Stroke:	108*130 (mm)
Compression Ratio:	18
Rated RPM:	1800rpm
Max. Standby Power at Rated RPM:	129KW / 176Hp (with fan)
Governor Type:	EDC4

### **Exhaust System**

Exhaust Gas Flow:	27.6m3/min
Exhaust Temperature:	505°C
Max Back Pressure:	7kPa

### **Air Intake System**

Max Intake Restriction:	3.5kPa
Burning Capacity:	9.6m3/min
Air Flow:	138m3/min

### **Fuel System**

100%( Prime Power) Load:	27.16 Lts / Hr
75%(Prime Power) Load:	26.67 Lts / Hr
50%(Prime Power) Load:	27.40 Lts / Hr

### **Oil System**

Total Oil Capacity:	13L
Oil Consumption:	0.08L/h
Engine Oil Tank Capacity:	11L
Oil Pressure at Rated RPM:	450-480kPa

### **Cooling System**

Total Coolant Capacity:	20.2L
Thermostat:	83-95°C
Max Water Temperature:	105°C

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### ALTERNATOR SPECIFICATION

#### General Data

Compliance with GB755, BS5000, VDE0530, NEMAMG1-22, IED34-1, CSA22.2 and AS1359 standards.

#### Alternator Data

Number of Phase:	3
Connecting Type:	3 Phase and 4 Wires, $yY_j$ type connecting
Number of Bearing:	1
Power Factor:	0.8
Protection Grade:	IP23
Altitude:	$\leq 1000m$
Exciter Type:	Brushless, self-exciting
Insulation Class, Temperature Rise:	H/H
Telephone Influence Factor (TIF):	$< 50$
THF:	$< 2\%$
Voltage Regulation, Steady State:	$\leq \pm 1\%$
Alternator Capacity:	138 KVA
Alternator Efficiencies:	90.70%
Air Cooling Flow:	0.617m <sup>3</sup> /s

### GENERATING SET DATA

Voltage Regulation:	$\geq \pm 5\%$
Voltage Regulation, Stead State:	$\leq \pm 1\%$
Sudden Voltage Warp (100% Sudden Reduce):	$\leq +25\%$
Sudden Voltage Warp (Sudden Increase):	$\leq -20\%$
Voltage Stable Time (100% Sudden Reduce):	$\leq 6S$
Voltage Stable Time (Sudden Increase):	$\leq 6S$
Frequency Regulation, Stead State:	$\leq 5\%$
Frequency Waving:	$\leq 0.5\%$
Sudden Frequency Warp (100% Sudden Reduce):	$\leq +10\%$
Sudden Frequency Warp (Sudden Increase):	$\leq -7\%$
Frequency Recovery Time (100% Sudden Reduce):	$\leq 5S$
Frequency Recovery Time (Sudden Increase):	$\leq 5S$
Noise Level:	108 dB

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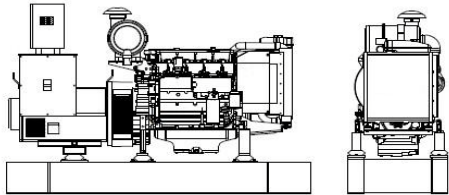
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## Diesel Generating Set V142

### Options

Engine	Fuel System	Control System
<ul style="list-style-type: none"> <li>● Heater 2KW &amp; 4KW</li> <li>● Battery Charger 3.5A &amp; 7A</li> </ul>	<ul style="list-style-type: none"> <li>● Daily Fuel Tank</li> <li>● Base Fuel Tank</li> <li>● Water Separator</li> <li>● Fuel Level Sensor</li> </ul>	<ul style="list-style-type: none"> <li>● Auto Control Panel</li> <li>● Remote Control Panel</li> <li>● Auto Transfer Switch (ATS)</li> <li>● Paralleling System</li> </ul>
Alternator	Others	Data
<ul style="list-style-type: none"> <li>● Anti Condensation Heater</li> <li>● Permanent Magnet Generator</li> <li>● Drop CT (For Paralleling)</li> </ul>	<ul style="list-style-type: none"> <li>● Rainproof Type</li> <li>● Soundproof Type</li> <li>● Trailer Type</li> </ul>	<ul style="list-style-type: none"> <li>● Engine Parts Drawing List</li> <li>● Spare Parts</li> </ul>

### Dimensions & Weight

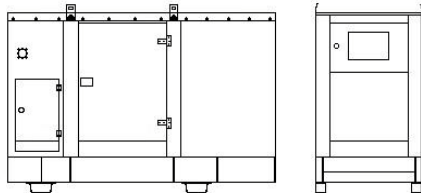


#### Standard Configuration (Open Type)

Overall Size: 2280 (mm) \*900 (mm) \*1450 (mm)  
 Weight: 1250kg

#### With Base Fuel Tank

Overall Size: 2280 (mm) \*920 (mm) \*1550 (mm)  
 Weight: 1400kg



#### Soundproof Type

Overall Size: 2760 (mm) \*1120 (mm) \*1730 (mm)  
 Weight: 2000kg

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### Standard Control Panel



Cargo Equipment Solutions, Inc. Standard Control Panel is the basic configuration for normal operation and usage, it is of some advantages such as easy to operate, various function and well protection. Operate buttons such as Turn On, Pre-Heat, Starting, Stop and Emergency Stop on the panel. While malfunction occurs, control panel will stop the generator and also alarm with light and buzz.

### Auto Module Control Panel



Auto Module Control Panel is the configuration for nobody on duty controlling generators. This kind of panel adopts auto module control system, with large LCD display to show the menu.

Features: MRS10-can receive remote output signal from ATS and realize auto start and stop of generators.

MRS16-can realize all functions of MRS10, add RS232 interface which can communicate with PC to realize remote operation.

AMF25-Auto Mains Failure controller, can realize all functions of MRS16, furthermore can detect ATS and control directly.

### Auto Parallel Control Panel



Automatic Parallel Control Panel, This new automatic parallel system adopts intelligent modules, inserted and folded installed, no need the peripheral relay and logic circuit. The main switch adopts electronic breaker or frame breaker, combined together with the generator, which is very reliable. One generator, one panel. The panel can be used both for singly and parallel. It is only need to parallel generator with such panel when the capability needs to be enlarged in the future.

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