

# Soundproof Diesel Engine TLG-18LSY



## SPECIFICATIONS

<b>MODEL</b>	<b>TLG 18LSY</b>		
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### Alternator

Frequency	Hz	50	60
Rated Output (kVA)	Continuous	15	18
Rated Voltage (V)	190-240V (380-480)		
Power Factor	0.8		
No. of Phase	3 Phase, 4 wire		
Exciting system	Brushless, Rotating Exciter (with A.V.R)		

### Diesel Engine

#### Manufacturer & Model

Yanmar 3-3TNV76G

Type	In lined, Direct Injected		
Bore x stroke	3-76 x 82		
Displacement (L)	1.115		
Rated Output (kw/min-1)	15.8/3000rpm	18.9/3600rpm	
Fuel	ASTM No. 2 Diesel Fuel or Equivalent		
Fuel Tank Capacity (L)	51		
Fuel Consumption (L/H)	3.8	4.7	
Battery	12-55 x 1		

### Dimensions and Weight

Length (mm)	1400
Width (mm)	690
Height (mm)	930
Dry Weight (kg)	440

### Sound Level

7m dB (A) 1500/1800rpm (min <sup>-1</sup> )	67
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#### \*1 Rated Voltage Classification

Frequency	50Hz	60Hz
①	190-220V	200-240V
②	190-220V	190-240V
	380-440V	380-480V
③	380-440V	380-480V

\*2 Fuel Consumption is based on operation at 75%

\*3 Sound level reflects high-speed operation and is calculated by averaging the measurements at four points, each 7 meters from the source

\*4 Depending on location and area, output voltage may differ from values listed in catalog

The specifications given herein are subject to change without notice.

## **TLG SERIES: Soundproof Diesel Engine**

**TLG SERIES:** Denyo's newly developed technology has been utilized with environment considerations. This TLG series are three phase and single phase models. These models are equipped with the engine of two poles and it can meet in any applications. Incorporating a revolutionary compact design, using advanced "know-How", it improves in operation, performance characteristics, and maintainability. The TLG Series illustrates that DENYO is keeping its commitment to develop new technology for tomorrow's power needs.

### **Improvements in Operation and Maintainability**

Newly Developed, High-Performance, Generator

The TLG Series suppress the wave distortion at the minimum for thyristors, inverter controls, computers, or X-rays. A start characteristic improves for motor loads, also using a high-efficiency Automatic Voltage Regulator (AVR) enables few voltage regulations. The voltage regulation is within  $\pm 1.0\%$  for single phase models and within  $\pm 1.5\%$  for three phase models.

### **Automatic Fuel Air Extractor**

Air trapped in the fuel system can be troublesome. However, with TLG Series, fuel air extraction is automatically performed by simply operating the starter

switch, without using tools or devices. There is no soiling the machine's interior or the operator's hand and the outflow of fuel to the machine's exterior is prevented.

### **Prolonged Operating Periods**

Using fuel efficient engines, in conjunction with the high-efficiency alternator, means fuel costs are reduced and enables the TLG Series to be operated continuously for periods between 9 and 13 hours.

### **One-Sided Maintenance**

The TLG Series are designed that daily maintenance can be done by one side of the machine. In addition, the radiator can be easily cleaned by removing its cover.

### **Eco-Friendly/Eco-Conscious Series (Models)**

### **Extremely Quiet Operation: 68dB (A) or less**

This high-speed system operates at low noise levels that will not disturb the human environment. This has been achieved by using highly effective sound-insulating materials and a unique duct construction, which is a part of the advanced cooling system developed by Denyo.

### **Used of Clean Engine**

The used in these generators meet the Californian Atmospheric Pollution Regulation, which is one of the world's most stringent anti-pollution standards. This is achieved by these engines using a PCV (Purge Control Wave) system. Therefore, these engines do not discharge blow-by gas to the outside. Which keeps the interior of the machine



cleaner and exhaust emissions are minimized.

The compact and stackable design of the TLG Series facilities the most effective use of storage space. All the machines are equipped with a balanced, centered lifting lug (hook) to further enhance generator's portability.

high water temperature, and failure of charging. If these abnormalities are detected, the warning lamp will light up and the engine will come to an emergency stop. There is also a circuit breaker to shut down immediately in the case of AC overload.

### Additional Features

#### 50Hz / 60Hz

You can operate the TLG Series at both 50Hz and 60Hz by simply adjusting the engine speed using the throttle control knob on the control panel.

#### Compact Design

#### Emergency Shut-Down Devices

To protect the generator from malfunctions, a warning lamp and an in-built emergency system are standard specification to detect the low oil pressure,

#### Optional Earth Leakage Relay

To prevent electric shock, it is recommended that these generators are equipped with leakage detectors and a relay circuit breaker.



1 Circuit Breaker(Three Phase Output) 2 Circuit Breaker(Output Socket) 3 Frequency Meter 4 AC Ammeter 5 AC Voltmeter 6 Engine Monitor 7 Starter Switch 8 Voltage Regulator 9 Earth Leakage Relay 10 Adjustable Speed Lever 11 Adjustable Frequency Screw 12 Single-phase Output Socket(2x15A) 13 Ground Terminal(For Bonnet) 14 Three Phase Output Terminals