

# GENERATING SET

## GE S-6000 YDM



air cooled



diesel



manual recoil

The images are for reference



### FEATURES

- Manual recoil (AA)
- Low oil pressure automatic engine shut down (AE)
- Sockets: 1x 230V 32A 2P+T CEE  
1x 230V 16A 2P+T CEE  
1x 230V 16A 2P+T Schuko
- Circuit breaker
- Fuel level gauge
- Protective frame and partially covered
- Ready for connection to automatic transfer unit EAS (AE)
- Meets EC directives for the safety



air cooled



diesel



single-phase


manual  
recoil

electric  
start


silenced

### POWER RATINGS

* Stand-By single-phase power (LTP)	5.7 kVA (5.1 kW) / 230V /24.8A
* PRP single-phase power	5 kVA (4.5 kW)/ 230 V / 21.7A
* COP single-phase power	/
Frequency	50 Hz
Cos φ	0.8

\* Output powers according to ISO 8528-1

### DEFINITION

Valid declared powers up to the followings environmental conditions: temperature 25°C, altitude 100 meters above sea level)

**LTP power: stand-by power:** Maximum available power for use with variable loads for a yearly number of hours limited at 500 h. No overload is admitted.

**PRP power:** continue power with variable loads. Maximum power for use with variable loads for a yearly illimited nubers of hours.

**COP power:** continuous power with constant load. Maximum power for use with constant loads for a yearly unlimited numbers of hours.

## ENGINE 3000 RPM

### 4 STROKE OHV, NATURAL ASPIRATED

Model	YANMAR L100V
* Stand-By net power	6.3 kWm (8.5 hp)
* PRP net power	5.7 kWm (7.7 hp)
* COP net power	/
Cylinders / Displacement	1 / 435 cm <sup>3</sup>
Bore / Stroke	86 / 75 (mm)
Compression ratio	20 : 1
BMEP (Brake Mean Effective Pressure : LTP - PRP)	/
Speed governor type	Mechanical
<b>FUEL CONSUMPTION</b>	
110 % (Stand-by power)	1.5 lt./h
100 % to PRP	1.3 lt./h
75 % to PRP	1 lt./h
50 % to PRP	0.8 lt./h
<b>COOLING SYSTEM</b>	
Total system cap. - only engine	/
Fan air flow	/
<b>LUBRICATION SYSTEM</b>	
Total oil system capacity	/
Oil capacity in sump	1.6 lt.
Oil consumption at full load	/

\* Output powers according to ISO 3046-1

<b>EXHAUST SYSTEM</b>	
Maximum exhaust gas flow	/
Max. exhaust gas temp.	/
Maximum back pressure	4.3 kPa
External diameter exhaust pipe	/
<b>ELECTRICAL SYSTEM</b>	
12 Vdc (AE)	
Starter motor power	0.8 kW
Battery charging alternator cap.	15 A
Cold start	0°C
With cold start aid	/
<b>AIR FILTER</b>	
Dry	
Combustion air flow	/
<b>HEAT REJECTED AT FULL LOAD</b>	
To exhaust system	/
To water and oil	/
Radiated to room	/
To charge cooler	/



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## ALTERNATOR

SYNCHRONOUS, SINGLE-PHASE, SELF-EXCITED, SELF-REGULATED, BRUSHLESS (WITHOUT AVR) SYNCHRONOUS, SINGLE-PHASE, SELF-EXCITED, SELF-REGULATED (WITH AVR)		
	WITHOUT AVR	WITH AVR
Continuos power	6 kVA	7 kVA
Stand-by power	6.6 kVA	7.7 kVA
Three phase voltage	230 Vac	
Frequency	50 Hz	
Cos $\phi$	1	
Model A.V.R.	/	HVR10
Voltage regulation acc.	$\pm 5 \%$	$\pm 2 \%$
Sustained short circuit current	3 In	
Transient dip (100% load)	< 15 %	10 %
Recovery time	/	
Efficiency at 100% load	77.5% (230V - Cos $\phi$ 1)	79 % (230V - Cos $\phi$ 1)
Insulation	Class H	
Connection - Terminals	Series - N°4	
Electromagnetic compatibility ( R.F.I. suppr.)	EN55011	
Waveform distorsion - THD	< 6 %	< 5 %
Telephone interference - THF	/	

REACTANCES (6 KVA - 230 V) REACTANCES AVR (7 KVA - 230/115 V)	WITHOUT AVR	WITH AVR
Direct axis synchronuos - Xd	/	
Direct axis transient - X'd	/	
Subdirect axis transient - X''d	/	
Quadrature axis synchronuos - Xq	/	
Quadr. axis subtransient - X''q	/	
Negative sequence - X2	/	
Zero sequence - X0	/	
TIME CONSTANTS		
Transient - T'd	/	
Subtransient - T''d	/	
Open circuit - T'do	/	
Armature - Ta	/	
Short-circuit ratio Kcc	/	
IP protection degree	IP 23	
Cooling air flow	0.06/ m³/sec	0.583/ m³/sec
Coupling I Bearing	Direct J609b - N°1	

## GENERAL SPECIFICATIONS

Fuel tank capacity	20 lt.
Running time (75% to PRP)	20 h
Starter battery	12 Vdc - 18Ah (AE)
IP protection degree	IP 23

Acoustic power LwA (pressure LpA)	99 dB(A) (74 dB(A) @ 7m)
Performance class (ISO 8528)	G2

## CONTROL PANEL

- Start and stop engine key (AE)
- Low oil pressure shutdown light (AE)
- Battery charge warning light fault (AE)
- Local-Remote Start switch (AE)
- EAS plug (AE)
- Digital multifunction meter: Voltmeter - Frequencymeter -Total Hoursmeter  
- Partial Hoursmeter (resettable)
- Fuel gouge
- Fuel valve
- Circuit breaker
- Output sockets: 1x 230V 32A 2P+T CEE  
1x 230V 16A 2P+T CEE  
1x 230V 16A 2P+T Schuko
- Earth terminal (PE)



# WEIGHT - DIMENSIONS AND ACCESSORIES

GE S-6000 YDM



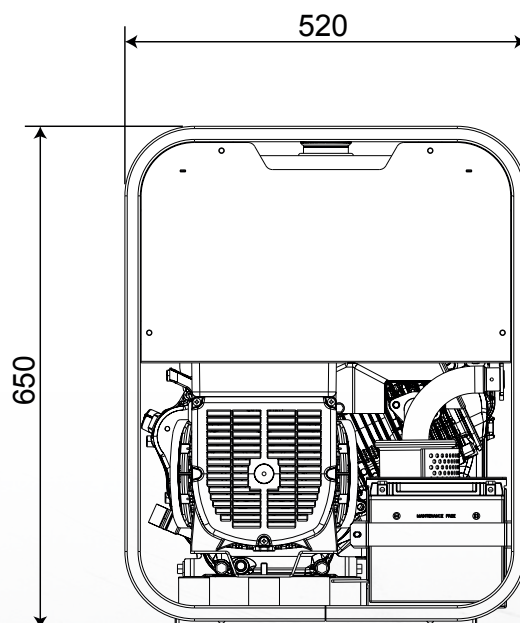
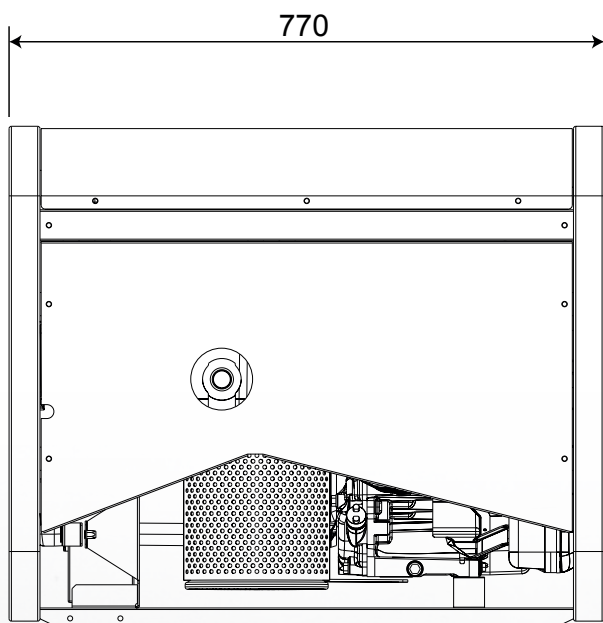
## DRY WEIGHT MACHINE:

- 123 Kg (AA)
- 127 Kg (AVR AA)
- 133 Kg (AE)
- 137 Kg (AVR AE)

Generating set pictured may include optional accessories.



## DIMENSIONS DRAW (mm)



## OPTIONS ON REQUEST

- Automatic transfer unit EAS 15 - 806 (AE)
- Remote control
- Earthing kit
- Moving trolley CM8



## VERSIONS ON REQUEST

- AVR version
- Electric starter version



## FACTORY INSTALLATION OPTIONS

- ELCB-GFI (Ground Fault Interruptor)
- Isometer

## GENERAL INFORMATION

### COMPLIANCE GENERATING SETS WITH EC DIRECTIVES AND STANDARDS

2006/42 / EC (Machines Directive)  
2014/35 / EU (Low Voltage Directive)  
2014/30 / EU (EMC Directive)  
2000/14 / EC (Directive Acoustic Emission for machines for use outdoors)  
ISO 8528 (Reciprocating internal combustion engine driven alternating current generating sets)



ISO 9001:2015 - Cert. 0192

### WARRANTY

All devices are covered by the manufacturer's warranty.

The company reserves the right to change this specification without notice. For further information please contact the sales department.

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