



**Generating Set  
Diesel - Electric start up**

## GE.ECHO 045 Y DM AE



### Technical data

Standard voltage	V	<b>230</b>
Power	kVA	<b>4,5</b>
Active power	kW	<b>3,6</b>
Speed	rpm	<b>3000</b>
Frequency	Hz	<b>50</b>
Current	A	<b>16</b>
Voltage accuracy	V	<b>+/- 5%</b>
Frequency accuracy	Hz	<b>+/- 4%</b>

### General data

Start-up	Type	<b>Electric</b>
Sound pressure level @ 7 mt	dB(A)	<b>74</b>
Tank	Lt	<b>4</b>
Fuel consumption @ 4/4 load	Lt/H	<b>1</b>
Battery capacity (recommended)	Ah	<b>45</b>
Exhaust pipe diameter	Mm	<b>35</b>
Dimensions (LxWxH)	Mm	<b>760 x 520 x 690</b>
Dry weight	Kg	<b>100</b>

### Engine

Brand	-	<b>YANMAR</b>
Model	-	<b>L 70</b>
Cooling	Type	<b>Air</b>
Cycle	Type	<b>Diesel 4-stroke</b>
Mechanical power	KWm	<b>4,9</b>
No cylinders / arrangement	-	<b>1 - L</b>
Brore x stroke	Mm	<b>78 x 67</b>
Displacement	Cm <sup>3</sup>	<b>320</b>
Speed governor	Type	<b>Mechanical</b>

### Alternator

Phases	-	<b>1 + N</b>
Degree of protection	-	<b>IP21</b>
Cooling	-	<b>Air forced</b>
Voltage regulator	Type	<b>Condenser</b>
Waveform distortion	%	<b>&lt;5</b>

### Environmental conditions

Temperature	°C	<b>25</b>
Relative humidity	%	<b>30</b>
Maximum altitude	Mt	<b>1000</b>



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### EQUIPMENT

Protective cover
Forklift chassis with integrated anti-tip
Raised chassis
Easy start-up
Alternator stabilized, high performance
Handle for short displacements
Start battery
Easy maintenance
Anti-vibrating mounting pads

### CONTROL PANEL ON BOARD

n.1 CEE socket 16 A 2P + T
n.1 Schuko socket 16 A
Thermal circuit breaker
LED voltmeter
Hourcounter
Protection system to electrical separation



### DOCUMENTATION

User and maintenance manual
EC Declaration of Conformity

### OPTIONALS

Exhaust flexible pipe kit
Off road trailer kit
Remote control from 20 to 50m.
Additional tank 20 lt
Remote control Connector: O.G-CNA-01
Automatic Transfer switch + GS interface: QA.MPE.017B



The QAMPE panel permits the control and the management of the generating sets in case of emergency with the main. It controls the main, the engine and the battery and intervenes in case of necessity. It is also provided with a manual command in case of electronic breakdown that keeps active the protections of the generating set. It get ready for remote control and is equipped with a powerful and precise battery charger.