

language

GENERATING SET GE 35 YSX

The images are for reference



POWER RATINGS

50 Hz

0.8

38 kVA (30.4 kW) / 400V / 54.8 A

35 kVA (28 kW) / 400V / 50.5 A

FEATURES

- Stage 3A compliant engine
- Automatic voltage regulation AVR with three-phase sensing
- The rounded edges of the canopy designed for rainwater drainage away
- Bunded base suitable to contain any liquids leakage from engine avoiding environmental pollution
- External caps for oil and water drain
- Large doors for better and easy maintenance (air, oil, fuel filters replacement)
- Central lifting eye
- · Forklift pockets
- Ready for connection to automatic transfer unit EAS (AMF + ATS)
- · Meets EC directives for noise and safety



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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 1500 RPM

* Stand-By three-phase power

* PRP three-phase power

* COP three-phase power

* Output powers according to ISO 8528-1

Frequency

 $\cos \phi$

4 STROKE, DIRE	CT INJECTION, NATURAL ASPIRATED
Model	YANMAR 4TNV98
* Stand-By net power	4/ 3.3. lit.
* PRP net power	98 / 110 (mm)
* COP net power	18.5 : 1
Cylinders / Displacement	34.1 kW (46.4 hp)
Bore / Stroke	30.7 kW (41.7 hp)
Compression ratio	/
BMEP (Brake Mean Effective Pressure : LTP - PRP)	/
Speed governor type	Mechanical
FUEL CONSUMPTION	
110 % (Stand-by power)	9 lit./h
100 % to PRP	8.1 lit./h
75 % to PRP	6.1 lit./h
50 % to PRP	4.2 lit./h
COOLING SYSTEM	
Total system cap only engine	9 lit 4.2 lit.
Fan air flow	70 m ³ /min
LUBRICATION SYSTEM	
Total oil system capacity	/
Oil capacity in sump	5.5 lit. (min) - 10.5 lit. (max)
Oil consumption at full load	/
Output powers according to ISO 3046-1	

EXHAUST SYSTEM	
Maximum exhaust gas flow	/
Max. exhaust gas temp.	630 °C
Maximum back pressure	9.8 kPa (0.1 bar)
External diameter exhaust pipe	/
ELECTRICAL SYSTEM	12 Vdc
Starter motor power	2.3 kW
Battery charging alternator cap.	40 A
Cold start	- 15 °C
With cold start aid	/
AIR FILTER	Dry
Combustion air flow	2.2 m ³ /min
HEAT REJECTED AT FULL LOAD	
To exhaust system	/
To water and oil	/
Radiated to room	/
To charge cooler	/





ALTERNATOR

SYNCHRONOUS, THREE-PHASE, SELF-EXCITED, SELF-REGULATED, BRUSHLESS			
Continuos power	35 kVA		
Stand-by power	39 kVA		
Three phase voltage	380-415 Vac		
Frequency	50 Hz		
Cos φ	0.8		
Model A.V.R.	HVR-30 (3ph. sensing)		
Voltage regulation acc.	± 1.0 %		
Sustained short circuit current	3 In		
Transient dip (100% load)	10 %		
Recovery time	\leq 3 sec.		
Efficiency at 100% load	88.6 % (400V - Cos φ 0.8)		
Insulation	Classe H		
Connection - Terminals	Stella - N°12		
Electromagnetic compatibility (R.F.I. suppr.)	EN 55011		
Waveform distorsion - THD	< 3 %		
Thelephone interference - THF	< 2 %		

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REACTANCES (20 kVA - 400V)	
Direct axis synchronuos - Xd	240 %
Direct axis transient - X'd	18 %
Subdirect axis transient - X"d	7 %
Quadrature axis synchronuos - Xq	133 %
Quadr. axis subtransient - X"q	/
Negative sequence - X2	/
Zero sequence - X0	/
TIME CONSTANTS	
Transient - T'd	0.01 sec
Subtransient - T"d	0.006 sec
Open circuit - T'do	0.147 sec
Armature - Ta	/
Short-circuit ratio Kcc	0.58
Cooling air flow	0.13 m ³ /sec.
Coupling Bearing	Diretto SAE 3 -11.5 ½ - N°1

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GENERAL SPECIFICATIONS

Fuel tank capacity		100 lt.
	Running time (75% to PRP)	16.5 h
	Starter battery	12 Vdc -100Ah
	IP protection degree	IP 44

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- Controller EP6
- Fuel level gauge
- Siren
- Emergency stop buttom
- Local-Remote Start switch
- EAS plug
- TCM 35 remote control plug
- Voltmeter switch 0 RS ST TR
- Four pole circuit breaker
- ELCB-GFI (Ground Fault Interruptor) 30 mA
- Terminal output with bus bar
- Output sockets: 1x 230V 16A 2P+T SCHUKO
 Girauit brackers and ELCP, CELter 220V 16A 20
- Circuit breakers and ELCB-GFI for 230V 16A 30 mA sockets
- Earth terminal (PE)

CONTRO	VERSION V		ITPI IT SI	OCKETS
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SOCKETS	1x 400V 63A 3P+N+T CEE
Every 16A and 32A socket is	1x 400V 32A 3P+N+T CEE
protected by its own circuit breaker	1x 400V 16A 3P+N+T CEE
and GFI 30mA	2x 230V 16A 2P+T CEE o SCHUKO

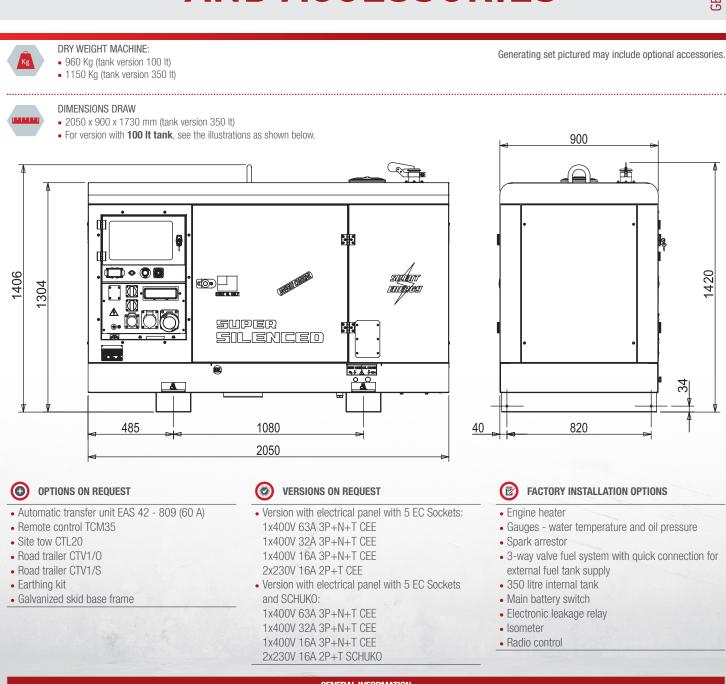
* Measured acoustic power LwA (pressure LpA)	90 dB(A) (65 dB(A) @ 7m)
* Guaranteed acoustic power LwA (pressure LpA)	91 dB(A) (66 dB(A) @ 7m)
Performance class (ISO 8528)	G2
* Acoustic power according to European Directive 200	00/14/CE

EP6 CONTROLLER CHARACTERISTICS				
Operating mode	OFF - MAN AUTO			
Display	4-digits display			
LEDs	Engine is running AUTO mode			
Buttons/controls	Starter key AUTO button N° 5 buttons for controller programming			
Measures	Generator voltage Generator current Frequency Engine speed Battery voltage Charger battery voltage Hoursmeter			
Alarms	Low oil pressure High temperature Belt break Low level fuel Emergency stop button Starting failure Over-under generator voltage Over-under frequency Over-under speed Hight-low battery voltage Overload generator Internal memory failure			
Functions	Remote starting (only to AUTO) Cold start aid Automatic periodic test (only to AUTO) Generator contactor control			



WEIGHT - DIMENSIONS AND ACCESSORIES

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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 9001:2008 - 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. © MOSA - Viale Europa, 59 - 20090 Cusago (Milano) - Italy -phone +39-0290352.1 - fax + 39-0290390466 E-mail: info@mosa.it Web site: www.mosa.it

