MODEL GSW 310-700 DOOSAN

- **DOOSAN diesel engine.**
- **MECC ALTE synchronous alternator.**
- **Water cooling system.**
- **Internal residential muffler.**

MODEL		GSW310 DO	GSW330 DO	GSW 410 DO	GSW 440 DO	GSW500 DO	GSW570 DO	GSW700 DO
CODE								
PRIME POWER PRP	**kVA** (kW)	**316 (253)**	**350 (280)**	**405 (324)**	**448 (358)**	**495 (396)**	**562 (449)**	**708 (567)**
EMERGENCY POWER LTP	**kVA** (kW)	**339 (272)**	**391 (313)**	**408 (358)**	**514 (411)**	**543 (434)**	**613 (490)**	**776 (620)**
Voltage	**VAC / Phases**	**480/277 Three phases**	**480/277 Three phases**	**480/277 Three phases**	**480/277 Three phases**	**480/277 Three phases**	**480/277 Three phases**	**480/277 Three phases**
Frequency	Hz	60	60	60	60	60	60	60
Power factor	Cos φ	0.8	0.8	0.8	0.8	0.8	0.8	0.8
Tank capacity	Litres	700	700	700	700	700	700	700
Autonomy (100% load PRP)	h	10.00	10.00	8.60	7.60	6.80	6.00	4.90
Dimensions (LxWxH)	mm	3.950 x 1.460 x 2.095	3.950 x 1.460 x 2.095	4.500 x 1.830 x 2.400	4.500 x 1.830 x 2.400	4.500 x 1.830 x 2.400	4.500 x 1.830 x 2.400	4.500 x 1.830 x 2.400
Weight	kg	2.780	2.920	3.787		3.929	4.296	4.974
DIESEL ENGINE	**DOOSAN**	**P126T1**	**P126T1-2**	**P158LE-1**	**P158LE**	**P158LE-S**	**P180LE**	**P222LE-2L**
Cooling system	Type	Water	Water	Water	Water	Water	Water	Water
Speed	r.p.m.	1,800	1,800	1,800	1,800	1,800	1,800	1,800
Displacement	c.c.	11.051	11.100	14.600	14.618	14.618	18.273	
Cylinders and disposition	n° disp.	6 in line	6 in line	8 in V	8 in V	8 in V	10 in V	
Aspiration	Type	Turbo	Turbo	Turbo	Turbo	Turbo	Turbo	Turbo
Power (net) - PRP	kWm	278.0	307.0	366.0	402.0	441.0	497.0	
Fuel consumption (100% load)	l/h	70.3			102.5	111.5	128.2	
Specific consumption PRP	g/kWh	228	0	0	229	228	232	
Electrical circuit	VDC	24	24	24	24	24	24	24
Engine governor (standard)	Type	Electronic	Electronic	Electronic	Electronic	Electronic	Electronic	Electronic
ALTERNATOR	**MECCALTE**	**ECO38 2L**	**ECO38 2L**	**ECO40 1S**	**ECO40 1S**	**ECO40 3S**	**ECO40 1L**	**ECO40 2L**
Insulation	Class	H	H	H	H	H	H	H
IP degree of protection	Type	IP21	IP21	IP21	IP21	IP21	IP21	IP21
Voltage regulation	Type	Electronic	Electronic	Electronic	Electronic	Electronic	Electronic	Electronic

TECHNICAL FEATURES

TECHNICAL CHARACTERISTICS NOT IMPEGNATIVE RESERVATION OF MODIFICATIONS FOR INNOVATION OF THE PRODUCT

AUTOMATIC CONTROL PANEL (ACP)	GSW310 DO	GSW330 DO	GSW 410 DO	GSW 440 DO	GSW500 DO	GSW570 DO	GSW700 DO
 Automatic control panel mounted on the genset, complete with digital control unit **AC03** for monitoring, control and protection of the generating set.							
Digital instrumentation through AC-03 control unit.	• Genereting set voltage (3 phases). • Mains voltage. • Generating set frequency. • Generating set current (3 phases). • Power (kVA - kW - kVAr). • Power factor Cos φ. • Engine speed r.p.m. • Fuel level (%). • Oil pressure • Battery voltage. • Hours-counter. • Engine temperature.						
Commands and others	• Four operation modes: OFF - Manual starting - Automatic starting - Automatic test. • Pushbutton for forcing Mains contactor or Genset contactor. • Push-buttons: start/stop, fault reset, up/down/page/enter selection. • Emergency stop button. • Remote starting availability. • DC system disconnection switch. • Acoustic alarm. • Setable PASSWORD for protection level. • Automatic battery charger.						
Protections with alarm	• Engine protections: low fuel level, low oil pressure, high engine temperature. overload, under/over frequency, starting failure, under/over battery voltage. • Genset protections: under/over voltage,						
Protections with shutdown	• Engine protections: low fuel level, low oil pressure, high engine temperature, • Genset protection: under/over voltage, overload, under/over battery voltage. • Circuit breaker protection: III poles.						
Ouput	• Plinth row for connection from ACP to LTS panel. • Power cables connection directly from circuit breaker.						

AUTOMATIC CONTROL PANEL (ACP)

GENSET SUPPLEMENTS (ONLY AVAILABLE WHEN ORDERED)

- **PHS: COOLANT PREHEATING SYSTEM.**

ACCESSORIES

- **LOAD TRANSFER SWITCH PANEL.**

 Load transfer switch panel built in a metal cabinet and supplied loose from the genset.	**Change over contactors**	**IV poles - 600A.**	**IV poles - 700A.**	**IV poles - 800A.**		**IV poles - 1,250A.**	**IV poles - 1,600A**	
	Connections	• Plinth row for connection from ACP to LTS panel. • Terminals board for power cables connection (Genset-Mains-Load).						
	Protections	• Contactors mechanically and electrically interlocked. • Emergency stop button.						
	Note: Automatic control panel + LTS panel measures the Mains voltage and starts automatically the genset within few seconds in case of Mains failure. It transfers immediately the load again to the genset when the Mains voltage returns within the rated values.							

ACCESSORIES