



REF. GDS **06.00**


MODEL | GSA22-65D

- DEUTZ Diesel engine.
- Air cooling system.
- Industrial muffler.
- Complete with engine and battery liquids.





MODEL		GSA22D	GSA30D	GSA42D	GSA65D	
CODE		SG200TDA	SG280TDA	SG400TDA	SG600TDA	
TECHNICAL FEATURES	PRIME POWER PRP	kVA (kW)	19,0 (15,2)	29,0 (23,2)	39,9 (31,9)	61,0 (48,8)
	Emergency power LTP	kVA (kW)	20,1 (16,1)	30,0 (24,0)	41,0 (32,8)	62,1 (49,7)
	Voltage	Volt	400/231	400/231	400/231	400/231
	Frequency	Hz	50	50	50	50
	Power factor	Cos φ	0,8	0,8	0,8	0,8
	Fuel capacity	Litres	90	90	90	240
	Autonomy (100% load PRP)	h	18,7	12,9	9,6	17,1
	Dimensions (LxWxH)	mm	1.400 x 750 x 1.700	1.400 x 750 x 1.560	1.800 x 750 x 1.710	2.200 x 1.000 x 1.620
	Weight	kg	510	655	776	954
	DIESEL ENGINE	DEUTZ	F3L 2011	F4L 2011	F4L 912	F6L 912
	Cooling system	Type	Air	Air	Air	Air
	Speed	rpm	1.500	1.500	1.500	1.500
	Displacement	c.c.	2.330	3.110	3.770	5.650
	Cylinders and disposition	n° disp.	3 L	3 L	4 L	6 L
	Aspiration	Type	Natural	Natural	Natural	Natural
	Engine power PRP	kWm	19,0	27,6	37,0	55,0
	Fuel consumption (100% load)	l/h	4,8	7,0	9,4	14,0
	Specific consumption PRP	g/kWh	230	216	214	214
	Engine governor (standard)	Type	Mechanical	Mechanical	Mechanical	Mechanical
	ALTERNATOR	Brand/Type	Linz-E1S 13M/4-19	Stamford-BCI 184F	Stamford-BCI 184J	Stamford-UCI 224E
Insulation	Class	H	H	H	H	
Mechanical degree of protection	Type	IP23	IP23	IP23	IP23	
Voltage regulation	Type	Compound	Electronic	Electronic	Electronic	

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

MANUAL CONTROL PANEL (MCP)		GSA22D	GSA30D	GSA42D	GSA65D
MANUAL CONTROL PANEL (MCP)	 <p>Manual control panel mounted on the genset, complete with digital control unit BE23 for monitoring, control and protection of the generating set.</p>	Digital instrumentation through BE23 control unit. <ul style="list-style-type: none"> • Generating set voltage (3 phases). • Generating set frequency. • Generating set current (3 phases). • Battery voltage. • Power (kVA - kW - kVAr). • Power factor Cos φ. • Hours-counter. • Fuel level (%). 			
		Commands and others <ul style="list-style-type: none"> • DC supply selector switch. • Push-buttons: start/stop. • Emergency stop button. • Remote starting availability. 			
		Protections with alarm <ul style="list-style-type: none"> • Engine protections: low fuel level, low oil pressure, high engine temperature. • Genset protections: over-frequency, battery voltage out of limits. 			
		Protections with shutdown <ul style="list-style-type: none"> • Engine protections: low fuel level, low oil pressure, high engine temperature. • Genset protections: under/over voltage, over-load, under/over frequency, under/over battery voltage. • Circuit breaker protection: IV poles (for GSA20-30-40) and III poles (for GSA60). • Differential protection. 			
		Output <ul style="list-style-type: none"> • Power cables connection directly from circuit breaker. 			

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


AUTOMATIC CONTROL PANEL (ACP)		GSA22D	GSA30D	GSA42D	GSA65D
 <p>Automatic control panel mounted on the genset, complete with digital control unit AC01 for monitoring, control and protection of the generating set.</p>	Digital instrumentation through AC01 control unit.	<ul style="list-style-type: none"> • Generating set voltage (3 phases). • Mains voltage. • Generating set frequency. • Generating set current (3 phases). • Battery voltage. • Power (kVA - kW - kVAr). • Power factor Cos φ. • Hours-counter. • Engine speed r.p.m. • Fuel level (%). 			
	Commands and others	<ul style="list-style-type: none"> • Selector switch with six positions: Automatic test - Automatic starting - Engine locked - Mains contactor forced - Manual starting - Genset contactor forced. • Push-buttons: start/stop, up/down selection, reset. • Emergency stop button. • Remote starting availability. • Acoustic alarm. • Automatic battery charger. 			
	Protections with alarm	<ul style="list-style-type: none"> • Engine protections: low fuel level, low oil pressure, high engine temperature. • Genset protections: under/over voltage, overload, under/over frequency, starting failure, under/over battery voltage, battery charger failure. 			
	Protections with shutdown	<ul style="list-style-type: none"> • Engine protections: low fuel level, low oil pressure, high engine temperature, • Genset protection: under/over voltage, overload, under/over battery voltage, battery charger failure. • Circuit breaker protection: IV poles (for GSA20-30-40) and III poles (for GSA60). • Differential protection. 			
	Output	<ul style="list-style-type: none"> • Plinth row for connection from ACP to LTS panel. • Power cables connection directly from circuit breaker. 			

AUTOMATIC CONTROL PANEL (AMF)		GSA22D	GSA30D	GSA42D	GSA65D
 <p>Automatic control panel for automatic starting by Mains failure. Delivered loose from the genset, and complete with digital control unit AC01 for monitoring, control and protection of the generating set.</p>	Digital instrumentation through AC01 control unit.	<ul style="list-style-type: none"> • Generating set voltage (3 phases). • Mains voltage. • Generating set frequency. • Generating set current (3 phases). • Battery voltage. • Power (kVA - kW - kVAr). • Power factor Cos φ. • Hours-counter. • Engine speed r.p.m. • Fuel level (%). 			
	Commands and others	<ul style="list-style-type: none"> • Selector switch with six positions: Automatic test - Automatic starting - Engine locked - Mains contactor forced - Manual starting - Genset contactor forced. • Push-buttons: start/stop, up/down selection, reset. • Emergency stop button. • Remote starting availability. • Acoustic alarm. • Automatic battery charger. 			
	Change over contactors Mains/Genset	IV poles - 32A.	IV poles - 45A.	IV poles - 60A.	IV poles - 90A.
	Protections with alarm	<ul style="list-style-type: none"> • Engine protections: low fuel level, low oil pressure, high engine temperature. • Genset protections: under/over voltage, overload, under/over frequency, starting failure, under/over battery voltage, battery charger failure. 			
	Protections with shutdown	<ul style="list-style-type: none"> • Engine protections: low fuel level, low oil pressure, high engine temperature, • Genset protection: under/over voltage, overload, under/over battery voltage, battery charger failure. 			
	Output	<ul style="list-style-type: none"> • Plinth row for connection from pre-wired panel (mounted on the genset) to AMF panel. • Power cables connected to terminals board (internal). 			


GENSET SUPPLEMENTS (ONLY AVAILABLE WHEN ORDERED)

GENSET SUPPLEMENTS	APM: PMG FOR STAMFORD ALTERNATOR + MX321 AVR. Only available for GSA60.
	GPG: GENSET PARALLEL KIT FOR SYNCHRONIZING WITH OTHER GENSET. Only available for GSA60 on prewired version.
	GPM: GENSET PARALLEL KIT FOR SYNCHRONIZING WITH THE MAINS. Only available for GSA60 on prewired version.
	EEG: ENGINE ELECTRONIC SPEED GOVERNOR.
	PHS: COOLANT PREHEATING SYSTEM.

CONTROL PANEL SUPPLEMENTS (ONLY AVAILABLE WHEN ORDERED)

CONTROL PANEL SUPPLEMENTS	MAP: MANUAL ANALOGUE CONTROL PANEL.				
	 <p>Manual control panel mounted on the genset, with analogue instrumentation, and protected through door with lockable handle.</p>	Instrumentation (analogue)	<ul style="list-style-type: none"> • Voltmeter with selector switch (3 phases). • Frequency meter. • Ammeter with selector switch (3 phases). • Hours-counter. • Fuel level indicator. • Oil pressure indicator. • Engine temperature indicator. 		
		Commands and others	<ul style="list-style-type: none"> • Start/stop selector switch with key. • Emergency stop button. 		
		Protections with alarm	<ul style="list-style-type: none"> • Engine protections: low fuel level, low oil pressure, high engine temperature, battery charger failure. 		
		Protections with shutdown	<ul style="list-style-type: none"> • Circuit breaker protection: IV poles (for GSA22-30-42) and III poles (for GSA65). • Differential protection. • Engine protection unit: low fuel level, low pressure oil, high engine temperature, battery charger failure. 		
		Output	<ul style="list-style-type: none"> • Power cables connection directly from circuit breaker. 		
RSS: REMOTE START/STOP. Only for MAP.					
TIF: IV POLES CIRCUIT BREAKER INSTEAD OF III POLES. Only for GSA60.					

ACCESSORIES

ACCESSORIES	LOAD TRANSFER SWITCH PANEL.		GSA22D	GSA30D	GSA42D	GSA65D
	 <p>Load transfer switch panel built in a metal cabinet and supplied loose from the genset.</p>	Change over contactors	IV poles - 32A.	IV poles - 45A.	IV poles - 60A.	IV poles - 90A.
		Connections	<ul style="list-style-type: none"> • Plinth row for connection from ACP to LTS panel. • Terminals board for power cables connection (Genset-Mains-Load). 			
		Protections	<ul style="list-style-type: none"> • Contactors mechanically and electrically interlocked. • Emergency stop button. 			
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.						
FEC: FLEXIBLE EXHAUST COMPENSATOR.						
RES: RESIDENTIAL SILENCER.						
RCG: REMOTE CONTROL BY GSM KIT (kit for genset management and control by remote PC; communication available by means of RS232 directly to PC or through GSM modem). Available only on the automatic versions.					