

# GS Series



# GSL 22-65



Single fluid for both cooling and lubrication, the GSL series is one of the best choices to work for continuous duty in severe hot weather conditions such as in tropical areas. Available both in an open and soundproof version, these generating sets are highly appreciated in the telecommunications, construction and defence sectors due to their durability and reliability. All service points accessible from one side make the maintenance easy and fast.

## OPEN



Integrated metal fuel tank



Base frame provided with feet for easy handling



Moving and rotating parts protections against accidental contacts



Heavy duty anti-vibration mountings



## CANOPY



Central lifting point



Compact design with integrated plastic fuel tank



Exhaust silencer with rain flap



Niche for external emergency push-button



**GSL 22 - 65 DIESEL**

GENERATING SET	GSL22D		GSL30D		GSL42D		GSL65D	
	THREE PHASE 480/277V**							
POWER SUPPLY	kW	kVA	kW	kVA	kW	kVA	kW	kVA
<b>THREE PHASE</b>								
STAND BY POWER LTP	20,4	25,5	30,7	38,4	41,0	51,2	59,0	73,8
PRIME POWER PRP	19,7	24,6	29,3	36,6	38,9	48,6	55,8	69,7
<b>POWER SPECIFICATIONS</b>								
VOLTAGE	480 / 277		480 / 277		480 / 277		480 / 277	
FREQUENCY	60		60		60		60	
POWER FACTOR	0,8		0,8		0,8		0,8	
<b>ENGINE</b>								
BRAND	Deutz AG		Deutz AG		Deutz AG		Deutz AG	
MODEL	F3M2011		F4M2011		BF4M2011		BF4M2011C	
FUEL	Diesel		Diesel		Diesel		Diesel	
DISPLACEMENT	2330		3110		3110		3110	
SPEED	1800		1800		1800		1800	
CYLINDER	3 in line		4 in line		4 in line		4 in line	
COOLING SYSTEM	Oil		Oil		Oil		Oil	
STARTING SYSTEM	Electric		Electric		Electric		Electric	
ELECTRIC CIRCUIT	12		12		12		12	
ASPIRATION	Natural		Natural		Turbo		Turbocharged intercooled	
SPEED GOVERNOR	Mechanical		Mechanical		Mechanical		Mechanical	
EMISSION STAGE COMPLIANCE EPA	Non Emission Certified		Non Emission Certified		Non Emission Certified		Non Emission Certified	
STAND BY POWER LTP	24,5		35,2		47,3		67,1	
PRIME POWER PRP	23,3		33,5		45,0		63,6	
<b>ALTERNATOR</b>								
TYPE	Brushless		Brushless		Brushless		Brushless	
POLES	4		4		4		4	
VOLTAGE REGULATION SYSTEM	Electronic		Electronic		Electronic		Electronic	
ALTERNATOR PROTECTION	IP		IP		IP		IP	
<b>CONSUMPTION</b>								
FUEL CONSUMPTION at 75% of load	4,82		7,07		9,31		12,31	
FUEL CONSUMPTION at 100% of load	6,38		9,35		12,91		16,28	
<b>VERSION</b>	<b>OPEN</b>	<b>CANOPY</b>	<b>OPEN</b>	<b>CANOPY</b>	<b>OPEN</b>	<b>CANOPY</b>	<b>OPEN</b>	<b>CANOPY</b>
<b>DIMENSION AND WEIGHT</b>								
LENGTH	1400	2000	1800	2000	1800	2000	2007	2285
WIDTH	750	920	750	920	750	920	758	920
HEIGHT	1678	1310	1518	1310	1518	1310	1841	1310
WEIGHT (DRY)	534	690	714	760	761	824	858	981
FUEL TANK MATERIAL	Metal	Plastic	Metal	Plastic	Metal	Plastic	Metal	Plastic
FUEL TANK CAPACITY	91	68	91	68	91	68	91	209
RUNNING TIME at 75% of load	18,88	14,11	12,87	9,62	9,77	7,30	7,39	16,98
<b>OPTIONALS **</b>								
EFT - EXTENDED FUEL TANK (supplement)	-	450	-	450	-	450	-	730
KPR - PREMIUM KIT	-	S	-	S	-	S	-	S
EEG - ELECTRONIC ENGINE GOVERNOR	S	S	S	S	S	S	S	S
STR - SITE TRAILER	-	0	-	0	-	0	-	0
RTR - ROAD TRAILER	-	0	-	0	-	0	-	0
RES - RESIDENTIAL SILENCER	0	-	0	-	0	-	0	-
FEC - FLEXIBLE EXHAUST COMPENSATOR	0	-	0	-	0	-	0	-
<b>CONTROL PANEL AVAILABLE</b>								
MANUAL CONTROL PANEL								
AUTOMATIC CONTROL PANEL								
	6		6		6		6	7
	9		9		9		9	

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# GSW 10-220



Available in a large range of models, the GSW series offers plenty of solutions to a variety of applications, from continuous to emergency/back up power supply. Compliant with safety regulations, these generators can be used both in residential and industrial areas. Several control panel solutions, many optional extra's and accessories make the GSW generators versatile and able to serve the most demanding customer needs.

## OPEN



Integrated metal fuel tank



Base frame provided with feet for easy handling



Moving and rotating parts protections against accidental contacts



Heavy duty anti-vibration mountings



GSW 65-220

## CANOPY



Central lifting point



Compact design with integrated plastic fuel tank



Exhaust silencer with rain flap



Coolant refilling facility



GSW 10-220

GSW 10 - 25 DIESEL

GENERATING SET		GSW10Y	GSW10P	GSW15P	GSW15Y	GSW25Y					
POWER SUPPLY		THREE PHASE 480/277V**									
THREE PHASE		<b>kW</b>	<b>kVA</b>	<b>kW</b>	<b>kVA</b>	<b>kW</b>	<b>kVA</b>				
STAND BY POWER LTP		9,4	11,7	10,0	12,5	14,0	17,5	14,0	17,5	19,3	24,2
PRIME POWER PRP		8,6	10,8	9,0	11,3	12,7	15,8	13,5	16,9	18,3	22,9
POWER SPECIFICATIONS											
VOLTAGE	Volt	480 / 277		480 / 277		480 / 277		480 / 277		480 / 277	
FREQUENCY	Hz	60		60		60		60		60	
POWER FACTOR	cos Φ	0,8		0,8		0,8		0,8		0,8	
ENGINE											
BRAND		Yanmar		Perkins		Perkins		Yanmar		Yanmar	
MODEL		3TNV76-GPGE		403D-11G		403D-15G		3TNV88-BGPGE		4TNV88-BGPGE	
FUEL		Diesel		Diesel		Diesel		Diesel		Diesel	
DISPLACEMENT	cc	1116		1131		1496		1642		2190	
SPEED	rpm	1800		1800		1800		1800		1800	
CYLINDER		3 in line		3 in line		3 in line		3 in line		4 in line	
COOLING SYSTEM		Water		Water		Water		Water		Water	
STARTING SYSTEM		Electric		Electric		Electric		Electric		Electric	
ELECTRIC CIRCUIT	Volt	12		12		12		12		12	
ASPIRATION		Natural		Natural		Natural		Natural		Natural	
SPEED GOVERNOR		Mechanical		Mechanical		Mechanical		Mechanical		Mechanical	
EMISSION STAGE COMPLIANCE EPA		Tier 4 Interim		Tier 4 Interim		Tier 4 Interim		Tier 4 Interim		Tier 4 Interim	
STAND BY POWER LTP	kW	11,1		11,8		16,2		16,9		22,5	
PRIME POWER PRP	kW	10,2		10,7		14,7		16,1		21,4	
ALTERNATOR											
TYPE		Brushless		Brushless		Brushless		Brushless		Brushless	
POLES		4		4		4		4		4	
VOLTAGE REGULATION SYSTEM		Electronic		Electronic		Electronic		Electronic		Electronic	
ALTERNATOR PROTECTION	IP	23		23		23		23		23	
CONSUMPTION											
FUEL CONSUMPTION at 75% of load	L/h	2,45		2,49		3,29		3,61		4,86	
FUEL CONSUMPTION at 100% of load	L/h	3,22		3,16		4,32		4,76		6,39	
VERSION		CANOPY									
DIMENSION AND WEIGHT											
LENGTH	mm	1800		1800		1800		1800		1800	
WIDTH	mm	850		850		850		850		850	
HEIGHT	mm	1260		1260		1260		1260		1260	
WEIGHT (DRY)	kg	525		745		745		580		670	
FUEL TANK MATERIAL		Plastic		Plastic		Plastic		Plastic		Plastic	
FUEL TANK CAPACITY	L	68		68		68		68		68	
RUNNING TIME at 75% of load	h	27,76		27,31		20,67		18,84		13,99	
OPTIONALS **											
EFT - EXTENDED FUEL TANK (supplement)	L	210		210		210		210		210	
KPR - PREMIUM KIT		S		S		S		S		S	
STR - SITE TRAILER		0		0		0		0		0	
RTR - ROAD TRAILER		0		0		0		0		0	
CONTROL PANEL AVAILABLE											
MANUAL CONTROL PANEL	MCP	6		6		6		6		6	
AUTOMATIC CONTROL PANEL	ACP	9		9		9		9		9	

THREE PHASE

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GSW 25 - 45 DIESEL

GENERATING SET	GSW25P		GSW30P		GSW30Y		GSW45Y		GSW45P			
	THREE PHASE 480/277V**											
POWER SUPPLY	kW		kVA		kW		kVA		kW		kVA	
THREE PHASE	20,4	25,5	30,7	38,4	30,7	38,4	45,1	56,4	45,6	57,0		
STAND BY POWER LTP												
PRIME POWER PRP	19,3	24,2	29,9	36,1	29,3	36,6	42,8	53,6	43,2	54,0		
<b>POWER SPECIFICATIONS</b>												
VOLTAGE	480 / 277		480 / 277		480 / 277		480 / 277		480 / 277		480 / 277	
FREQUENCY	60		60		60		60		60		60	
POWER FACTOR	0,8		0,8		0,8		0,8		0,8		0,8	
<b>ENGINE</b>												
BRAND	Perkins		Perkins		Yanmar		Yanmar		Perkins			
MODEL	404D-22G		1103A-33G		4TNV98-GPGE		4TNV98T-GPGE		1103A-33TG1			
FUEL	Diesel		Diesel		Diesel		Diesel		Diesel			
DISPLACEMENT	2216		3300		3319		3319		3300			
SPEED	1800		1800		1800		1800		1800			
CYLINDER	4 in line		3 in line		4 in line		4 in line		3 in line			
COOLING SYSTEM	Water		Water		Water		Water		Water			
STARTING SYSTEM	Electric		Electric		Electric		Electric		Electric			
ELECTRIC CIRCUIT	12		12		12		12		12			
ASPIRATION	Natural		Natural		Natural		Turbocharged		Turbocharged			
SPEED GOVERNOR	Mechanical		Mechanical		Mechanical		Mechanical		Mechanical			
EMISSION STAGE COMPLIANCE EPA	Tier 4 Interim		Non Emission Certified		Tier 2		Tier 2		Non Emission Certified			
STAND BY POWER LTP	24,3		36,5		41,3		50,6		55,6			
PRIME POWER PRP	22,0		33,2		39,3		48,1		50,5			
<b>ALTERNATOR</b>												
TYPE	Brushless		Brushless		Brushless		Brushless		Brushless			
POLES	4		4		4		4		4			
VOLTAGE REGULATION SYSTEM	Electronic		Electronic		Electronic		Electronic		Electronic			
ALTERNATOR PROTECTION	23		23		23		21		21			
<b>CONSUMPTION</b>												
FUEL CONSUMPTION at 75% of load	4,74		6,63		6,83		9,89		9,79			
FUEL CONSUMPTION at 100% of load	6,10		8,60		9,10		13,23		12,70			
<b>VERSION</b>												
<b>CANOPY</b>												
<b>DIMENSION AND WEIGHT</b>												
LENGTH	1800		2000		2000		2000		2000			
WIDTH	850		920		920		920		920			
HEIGHT	1260		1310		1310		1310		1310			
WEIGHT (DRY)	730		877		773		839		958			
FUEL TANK MATERIAL	Plastic		Plastic		Plastic		Plastic		Plastic			
FUEL TANK CAPACITY	68		68		68		68		68			
RUNNING TIME at 75% of load	14,35		10,26		9,96		6,88		6,95			
<b>OPTIONALS **</b>												
EFT - EXTENDED FUEL TANK (supplement)	L		210		450		450		450		450	
KPR - PREMIUM KIT	S		S		S		S		S		S	
STR - SITE TRAILER	0		0		0		0		0		0	
RTR - ROAD TRAILER	0		0		0		0		0		0	
<b>CONTROL PANEL AVAILABLE</b>												
MANUAL CONTROL PANEL	MCP		6		6		6		6		6	
AUTOMATIC CONTROL PANEL	ACP		9		9		9		9		9	

THREE PHASE

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GSW 65 - 80 DIESEL

GENERATING SET		GSW65I		GSW65D		GSW65P		GSW80I		GSW80D	
		THREE PHASE		THREE PHASE 480/277V**		THREE PHASE 480/277V**		THREE PHASE 480/277V**		THREE PHASE 480/277V**	
POWER SUPPLY		kW	kVA	kW	kVA	kW	kVA	kW	kVA	kW	kVA
THREE PHASE		60,4	75,5	62,0	77,0	62,6	78,3	66,9	83,7	74,0	93,0
STAND BY POWER LTP		54,8	68,5	69,0	55,0	56,8	71,0	60,8	76,0	66,0	82,0
PRIME POWER PRP											
POWER SPECIFICATIONS		480 / 277		480 / 277		480 / 277		480 / 277		480 / 277	
VOLTAGE	Volt	60		60		60		60		60	
FREQUENCY	Hz	0,8		0,8		0,8		0,8		0,8	
POWER FACTOR	cos Φ	FPT		Deutz		Perkins		FPT		Deutz	
ENGINE		NEF45SM1A		BF4M2012		1103A-33TG2		NEF45SM2A		BF4M2012G	
BRAND		Diesel		Diesel		Diesel		Diesel		Diesel	
MODEL		4500		4040		3300		4500		4040	
FUEL		1800		1800		1800		1800		1800	
DISPLACEMENT	cc	4 in line		4 in line		3 in line		4 in line		4 in line	
SPEED	rpm	Water		Water		Water		Water		Water	
CYLINDER		Electric		Electric		Electric		Electric		Electric	
COOLING SYSTEM		12		12		12		12		12	
STARTING SYSTEM		Turbocharged intercooled		Turbo		Turbocharged		Turbocharged		Turbo, CAC	
ELECTRIC CIRCUIT	Volt	Mechanical		Mechanical		Mechanical		Mechanical		Mechanical	
ASPIRATION		Non Emission Certified		Tier 2		Non Emission Certified		Non Emission Certified		Tier 2	
SPEED GOVERNOR		67,0		58,0		69,6		74,0		79,7	
EMISSION STAGE COMPLIANCE EPA		61,0		52,0		63,3		67,4		70,7	
STAND BY POWER LTP	kW	Brushless		Brushless		Brushless		Brushless		Brushless	
PRIME POWER PRP	kW	4		4		4		4		4	
ALTERNATOR		Electronic		Electronic		Electronic		Electronic		Electronic	
TYPE		21		21		21		21		21	
POLES		11,75		10,26		12,57		13,11		13,7	
VOLTAGE REGULATION SYSTEM		15,50		13,68		16,60		17,29		18,26	
ALTERNATOR PROTECTION	IP	OPEN	CANOPY	OPEN	CANOPY	OPEN	CANOPY	OPEN	CANOPY	OPEN	CANOPY
CONSUMPTION		2200	2400	2380	2410	2200	2285	2200	2400	2380	2410
FUEL CONSUMPTION at 75% of load	L/h	1000	1000	1080	1000	1000	920	1000	1000	1080	1000
FUEL CONSUMPTION at 100% of load	L/h	1743	1530	1600	1540	1743	1465	1743	1530	1600	1540
VERSION		1123	1440	1100	1250	909	1085	1139	1426	1120	1390
DIMENSION AND WEIGHT		Metal	Plastic	Plastic	Plastic	Metal	Plastic	Metal	Plastic	Plastic	Plastic
LENGTH	mm	240	209	297	125	240	209	240	209	297	125
WIDTH	mm	20,43	17,79	28,95	12,18	19,09	16,63	18,31	15,94	21,68	9,12
HEIGHT	mm	OPTIONALS **		EFT - EXTENDED FUEL TANK (supplement)		L		-		890	
WEIGHT (DRY)	kg	-	S	-	-	-	S	-	S	-	-
FUEL TANK MATERIAL		S	S	S	S	S	S	S	S	S	S
FUEL TANK CAPACITY	L	-	0	-	-	-	0	-	0	-	-
RUNNING TIME at 75% of load	h	-	0	-	-	-	0	-	0	-	-
OPTIONALS **		0	√	0	√	0	√	0	√	0	√
EFT - EXTENDED FUEL TANK (supplement)	L	0	√	0	√	0	√	0	√	0	√
KPR - PREMIUM KIT		CONTROL PANEL AVAILABLE		MANUAL CONTROL PANEL		MCP		AUTOMATIC CONTROL PANEL		ACP	
EEG - ELECTRONIC ENGINE GOVERNOR		6		7		6		7		6	
STR - SITE TRAILER		9		9		9		9		9	
RTR - ROAD TRAILER		10		10		-		10		10	
RER - RESIDENTIAL SILENCER		10		10		-		10		10	
FEC - FLEXIBLE EXHAUST COMPENSATOR		10		10		-		10		10	
CONTROL PANEL AVAILABLE		MANUAL CONTROL PANEL		MCP		AUTOMATIC CONTROL PANEL		ACP		MODULAR PARALLEL PANEL	
MANUAL CONTROL PANEL	MCP	6		7		6		7		6	
AUTOMATIC CONTROL PANEL	ACP	9		9		9		9		9	
MODULAR PARALLEL PANEL	MPP	10		10		-		10		10	

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GSW 150 - 170 DIESEL

GENERATING SET		GSW150D		GSW150V		GSW145I		GSW170V	
		THREE PHASE 480/277V**							
THREE PHASE		kW	kVA	kW	kVA	kW	kVA	kW	kVA
STAND BY POWER LTP		120,0	151,0	122,3	152,9	130,9	163,7	146,3	182,9
PRIME POWER PRP		109,0	136,0	109,0	136,3	119,0	148,7	131,1	163,9
POWER SPECIFICATIONS		480 / 277		480 / 277		480 / 277		480 / 277	
VOLTAGE	Volt	60		60		60		60	
FREQUENCY	Hz	0,8		0,8		0,8		0,8	
POWER FACTOR	cos Φ	Deutz		Volvo		FPT		Volvo	
ENGINE		BF4M1013FC		TAD532GE		NEF67SM1A		TAD731GE	
BRAND		Diesel		Diesel		Diesel		Diesel	
MODEL		4760		4760		6700		7150	
FUEL		1800		1800		1800		1800	
DISPLACEMENT	cc	4 in line		4 in line		6 in line		6 in line	
SPEED	rpm	Water		Water		Water		Water	
CYLINDER		Electric		Electric		Electric		Electric	
COOLING SYSTEM		12		12		12		12	
STARTING SYSTEM	Volt	Turbo, CAC		Turbocharged intercooled		Turbocharged		Turbocharged intercooled	
ELECTRIC CIRCUIT		Mechanical		Electronic		Mechanical		Mechanical	
ASPIRATION		Tier 2		Tier 2		Non Emission Certified		Tier 2	
SPEED GOVERNOR		124,0		137,7		145,0		162,7	
EMISSION STAGE COMPLIANCE EPA		112,0		123,7		132,4		146,7	
STAND BY POWER LTP	kW	Brushless		Brushless		Brushless		Brushless	
PRIME POWER PRP	kW	4		4		4		4	
ALTERNATOR		Electronic		Electronic		Electronic		Electronic	
TYPE		21		21		21		21	
POLES		19,9		24,52		28,44		29,33	
VOLTAGE REGULATION SYSTEM		26,53		32,69		34,22		37,9	
ALTERNATOR PROTECTION	IP	OPEN	CANOPY	OPEN	CANOPY	OPEN	CANOPY	OPEN	CANOPY
CONSUMPTION		2380	3010	2200	3000	2600	3400	2600	3400
FUEL CONSUMPTION at 75% of load	L/h	1080	1180	1000	1150	1000	1250	1000	1250
FUEL CONSUMPTION at 100% of load	L/h	1760	1780	1743	1760	1743	1770	1743	1770
VERSION		1400	1767	1491	1720	1441	1995	1796	2224
DIMENSION AND WEIGHT		Plastic	Plastic	Metal	Plastic	Metal	Plastic	Metal	Plastic
LENGTH	mm	297	360	240	350	240	350	240	350
WIDTH	mm	14,92	18,09	9,79	14,27	8,44	12,31	8,18	11,93
HEIGHT	mm	EFT - EXTENDED FUEL TANK (supplement)		-		1750		-	
WEIGHT (DRY)	kg	KPR - PREMIUM KIT		-		S		-	
FUEL TANK MATERIAL		EEG - ELECTRONIC ENGINE GOVERNOR		S		S		S	
FUEL TANK CAPACITY	L	STR - SITE TRAILER		-		0		-	
RUNNING TIME at 75% of load	h	RTR - ROAD TRAILER		-		0		-	
OPTIONALS **		RES - RESIDENTIAL SILENCER		0		√		0	
EFT - EXTENDED FUEL TANK (supplement)	L	FEC - FLEXIBLE EXHAUST COMPENSATOR		0		√		0	
KPR - PREMIUM KIT		CONTROL PANEL AVAILABLE		6		7		6	
EEG - ELECTRONIC ENGINE GOVERNOR		MANUAL CONTROL PANEL		MCP		ACP		MPP	
STR - SITE TRAILER		AUTOMATIC CONTROL PANEL		ACP		MPP			
RTR - ROAD TRAILER		6		7		6		7	
RES - RESIDENTIAL SILENCER		9		9		9		9	
FEC - FLEXIBLE EXHAUST COMPENSATOR		10		10		-		10	

THREE PHASE

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GSW 170 - 220 DIESEL

GENERATING SET		GSW170D		GSW170I		GSW220V		GSW220D		GSW220I	
THREE PHASE		THREE PHASE 480/277V**									
		kW	kVA	kW	kVA	kW	kVA	kW	kVA	kW	kVA
POWER SUPPLY											
STAND BY POWER LTP		147,0	183,0	156,8	195,9	200,7	250,9	200,0	250,0	201,7	252,1
PRIME POWER PRP		139,0	174,0	141,8	177,3	180,1	225,1	180,0	226,0	182,9	228,6
POWER SPECIFICATIONS											
VOLTAGE	Volt	480 / 277		480 / 277		480 / 277		480 / 277		480 / 277	
FREQUENCY	Hz	60		60		60		60		60	
POWER FACTOR	cos Φ	0,8		0,8		0,8		0,8		0,8	
ENGINE											
BRAND		Deutz		FPT		Volvo		Deutz		FPT	
MODEL		BF6M1013EC		NEF67TM3A		TAD733GE		BF6M1013FC G3		NEF67TE2A	
FUEL		Diesel		Diesel		Diesel		Diesel		Diesel	
DISPLACEMENT	cc	7150		6700		7150		7150		6700	
SPEED	rpm	1800		1800		1800		1800		1800	
CYLINDER		6 in line		6 in line		6 in line		6 in line		6 in line	
COOLING SYSTEM		Water		Water		Water		Water		Water	
STARTING SYSTEM		Electric		Electric		Electric		Electric		Electric	
ELECTRIC CIRCUIT	Volt	12		12		24		12		12	
ASPIRATION		Turbo, CAC		Turbocharged aftercooled		Turbocharged intercooled		Turbo, CAC		Turbocharged aftercooled	
SPEED GOVERNOR		Mechanical		Mechanical		Electronic		Mechanical		Electronic	
EMISSION STAGE COMPLIANCE EPA		Tier 2		Non Emission Certified		Tier 2		Tier 2		Non Emission Certified	
STAND BY POWER LTP	kW	145,8		172,5		224,5		193,8		222,5	
PRIME POWER PRP	kW	138,8		156,8		202,5		175,8		202,5	
ALTERNATOR											
TYPE		Brushless		Brushless		Brushless		Brushless		Brushless	
POLES		4		4		4		4		4	
VOLTAGE REGULATION SYSTEM		Electronic		Electronic		Electronic		Electronic		Electronic	
ALTERNATOR PROTECTION	IP	21		21		21		21		21	
CONSUMPTION											
FUEL CONSUMPTION at 75% of load	L/h	24,1		31,29		40,38		33,28		39,46	
FUEL CONSUMPTION at 100% of load	L/h	32,13		40,6		54,97		44,37		51,83	
VERSION											
DIMENSION AND WEIGHT											
LENGTH	mm	2700	3410	2600	3400	2650	3400	2700	3410	2600	3400
WIDTH	mm	1170	1260	1000	1250	1180	1250	1170	1260	1000	1250
HEIGHT	mm	1870	1780	1743	1770	1965	1980	1870	2000	1743	1770
WEIGHT (DRY)	kg	1700	2130	1505	2057	2238	2540	1770	2514	1590	2145
FUEL TANK MATERIAL		Plastic	Plastic	Metal	Plastic	Metal	Plastic	Plastic	Plastic	Metal	Plastic
FUEL TANK CAPACITY	L	360	360	240	350	400	350	360	360	240	350
RUNNING TIME at 75% of load	h	14,94	14,94	7,67	11,19	9,91	8,67	10,82	10,82	6,08	8,87
OPTIONALS **											
EFT - EXTENDED FUEL TANK (supplement)	L	-	-	-	1750	-	1750	-	-	-	1750
KPR - PREMIUM KIT		-	-	-	S	-	S	-	-	-	S
EEG - ELECTRONIC ENGINE GOVERNOR		S	S	S	S	√	√	S	S	√	√
STR - SITE TRAILER		-	-	-	0	-	0	-	-	-	0
RTR - ROAD TRAILER		-	-	-	0	-	0	-	-	-	0
RES - RESIDENTIAL SILENCER		0	√	0	√	0	√	0	√	0	√
FEC - FLEXIBLE EXHAUST COMPENSATOR		0	√	0	√	0	√	0	√	0	√
CONTROL PANEL AVAILABLE											
MANUAL CONTROL PANEL	MCP	6	7	6	7	6	7	6	7	6	7
AUTOMATIC CONTROL PANEL	ACP		9		9		9		9		9
MODULAR PARALLEL PANEL	MPP		10		10		10		10		10





THREE PHASE

S = Supplement (version available when ordered); for equipment and descriptions see page G1 - 0 = Accessory; for equipment and descriptions see page G1 - ● = Reference number; for descriptions and options see ELECTRICAL EQUIPMENT page 60 - √ standard - \*\* = Other configurations and detailed specifications are available on [www.pramac.com](http://www.pramac.com) - - = Not available



# ELECTRICAL EQUIPMENT

## GS SERIES 10 - 220

CONTROL PANELS Type	MCP ⑥ Manual control panel	MCP ⑦ Manual control panel	ACP ⑨ Automatic Control Panel	MPP ⑩ Modular Parallel Panel
Control panels with controls, instrumentations and protections to meet multiple applications. Designed for dedicated metallic box assembled and integrated into the generator.				
<b>OPERATIONAL TYPES</b>				
MANUAL START/STOP	√	√	√	√
AUTOMATIC MAIN FAILURE	-	-	√ (with LTS)	√ (with ATS)
AUTOMATIC START/STOP (remote)	S	S	√	√
PARALLEL RUNNING	-	-	-	√
<b>COMMAND</b>				
OPERATION MODES	OFF Manual Key Start	OFF Manual Key Start	OFF Manual starting Automatic starting Automatic test	OFF Manual starting Automatic function Multiple parallel genset Parallel to Mains
EMERGENCY STOP BUTTON	√	√	√	√
CIRCUIT BREAKER	√	√	√	√
<b>INSTRUMENTATIONS</b>				
TYPE	Analogue	Analogue	Digital control unit	Digital control unit
GENSET VOLTAGE	1 phases sensing	1 phase sensing	3 phases sensing	3 phases sensing
GENSET CURRENT INTENSITY	1 phases sensing	1 phase sensing	3 phases sensing	3 phases sensing
FREQUENCY METER	-	-	√	√
HOUR METER	√	√	√	√
FUEL LEVEL	-	-	√	√
OIL PRESSURE	-	-	√	√
ENGINE TEMPERATURE	-	-	√	√
GENERATING SET POWER	-	-	kVA - kW - kVAr - Cos Φ	kVA - kW - kVAr - Cos Φ
BATTERY VOLTAGE	-	-	√	√
MAINS VOLTAGE	-	-	√	√
ENGINE SPEED R.P.M.	-	-	√	√
<b>PROTECTIONS</b>				
LOW FUEL LEVEL	√	√	√	√
LOW OIL PRESSURE	√	√	√	√
HIGH ENGINE TEMPERATURE	√	√	√	√
BATTERY CHARGER FAILURE	√	√	√	√
EARTH FAULT	√	√	√	√
CIRCUIT BREAKER PROTECTION	III Poles	III Poles	III Poles	IV Poles (motorized)
UNDER/OVER VOLTAGE	-	-	√	√
UNDER/OVER FREQUENCY	-	-	√	√
REVERSE POWER	-	-	√	√
<b>OUTPUT**</b>				
ETB- EXTERNAL TERMINAL BOARD	-	S	S	√
TERMINALS CONNECTION FOR LTS PANEL	-	-	√	-
PREDISPOSED FOR REMOTE CONTROL RCG	-	-	√	√
RS232 COMMUNICATION PORT	-	-	√	√
MULTI-PIN CONNECTORS FOR PARALLEL GE	-	-	-	√
<b>OPTIONALS **</b>				
TIF - IV POLES CIRCUIT BREAKER	S	S	S	√
ADI - EARTH FAULT PROTECTION RELAY	√	√	S	S
RSS - REMOTE START & STOP	S	S	√	√
TLP - TERMINAL LOW POTENTIAL	-	-	S	S
RCG - REMOTE CONTROLS	-	-	S	S
PHS - COOLANT PRE-HEATING SYSTEM	-	-	S	S
AFP - AUTOMATIC FUEL PUMP	-	-	S	S
LTS - LOAD TRANSFER SWITCH	-	-	0	-
ATS - AUTOMATIC TRANSFER SWITCH	-	-	0	0

√ = standard - 0 = Accessory available - S = Supplement (version available when ordered) - - = Not available - \*\* = Other configurations and detailed specifications are available on [www.pramac.com](http://www.pramac.com)

# OPTIONALS

## GS SERIES 10 - 220

### SUPPLEMENTS AND ACCESSORIES \*\*

#### KPR - PREMIUM KIT

To upgrade the generator equipment with a leak proof tray, leak detection sensor and manual lube oil drain pump



#### TRAILERS

Designed to transporting our generator sets with maximum safety. Available in two different types both for road and site applications, according to customer needs



#### EFT - EXTENDED FUEL TANK

Larger metal fuel tank integrated in a bigger base frame allowing longer genset autonomy, at least till 48h at 75% PRP. Provided with pull bars and drainage facility



#### LTS - LOAD TRANSFER SWITCH

To allow load transferring operations from Mains to genset and vice-versa. Up to 140A equipped with contactors and from 160A equipped with motorized changeover switch



#### AFP - AUTOMATIC FUEL PUMP

Automatic fuel transfer system from an external storage fuel tank to the one integrated in the generator



#### RCG - REMOTE CONTROL

Large list of additional modules/devices for remote operation and control of the generating set



\*\*= Other configurations and detailed specifications are available on [www.pramac.com](http://www.pramac.com)



**SW 330**  
PowerEngineering

# GSW 275-760



Available in a large range of models, the GSW series offers plenty of solutions to a variety of applications, from continuous to emergency/back up power supply. Compliant with safety regulations, these generators can be used both in residential and industrial areas. Several control panel solutions, many optional extra's and accessories make the GSW generators versatile and able to serve the most demanding customer needs.

## OPEN



Moving and rotating parts protections against accidental contacts



Lube oil drain pump



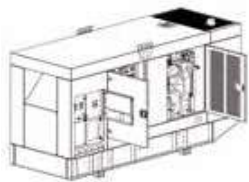
Integrated plastic fuel tank



Base frame provided with feet for easy handling



## CANOPY



High quality canopy design



Roof mounted lifting plates



Lockable door handles



Opening for fuel pipes



GSW 275 - 355 DIESEL

GENERATING SET		GSW275V		GSW275D0		GSW310D0		GSW355M	
POWER SUPPLY		THREE PHASE 480/277V**							
THREE PHASE		kW	kVA	kW	kVA	kW	kVA	kW	kVA
STAND BY POWER LTP		229,6	287,0	264,0	330,0	272,0	340,0	283,2	353,9
PRIME POWER PRP		204,1	255,2	252,0	315,0	253,0	316,0	256,6	320,8
POWER SPECIFICATIONS		480 / 277		480 / 277		480 / 277		480 / 277	
VOLTAGE	Volt	60		60		60		60	
FREQUENCY	Hz	0,8		0,8		0,8		0,8	
POWER FACTOR	cos Φ	ENGINE		ENGINE		ENGINE		ENGINE	
BRAND		Volvo		Doosan		Doosan		MTU	
MODEL		TAD734GE		P126TI		P126TI		6R1600G10S	
FUEL		Diesel		Diesel		Diesel		Diesel	
DISPLACEMENT		7150		11051		11051		10500	
SPEED		1800		1800		1800		1800	
CYLINDER		6 in line		6 in line		6 in line		6 in line	
COOLING SYSTEM		Water		Water		Water		Water	
STARTING SYSTEM		Electric		Electric		Electric		Electric	
ELECTRIC CIRCUIT		24		24		24		24	
ASPIRATION		Turbocharged intercooled		Turbocharged intercooled		Turbocharged intercooled		Turbocharged intercooled	
SPEED GOVERNOR		Electronic		Electronic		Electronic		Electronic	
EMISSION STAGE COMPLIANCE EPA		Tier 2		Tier 2		Tier 2		Tier 3	
STAND BY POWER LTP		263		265,0		265,0		312	
PRIME POWER PRP		236		234,0		234,0		284	
ALTERNATOR		ALTERNATOR		ALTERNATOR		ALTERNATOR		ALTERNATOR	
TYPE		Brushless		Brushless		Brushless		Brushless	
POLES		4		4		4		4	
VOLTAGE REGULATION SYSTEM		Electronic		Electronic		Electronic		Electronic	
ALTERNATOR PROTECTION		21		21		21		21	
CONSUMPTION		CONSUMPTION		CONSUMPTION		CONSUMPTION		CONSUMPTION	
FUEL CONSUMPTION at 75% of load		47,92		44,62		46,17		57,44	
FUEL CONSUMPTION at 100% of load		57,60		59,49		61,56		73,37	
VERSION		OPEN	CANOPY	OPEN	CANOPY	OPEN	CANOPY	OPEN	CANOPY
DIMENSION AND WEIGHT		DIMENSION AND WEIGHT		DIMENSION AND WEIGHT		DIMENSION AND WEIGHT		DIMENSION AND WEIGHT	
LENGTH		3300		2900		2900		3300	
WIDTH		1400		1200		1200		1400	
HEIGHT		1844		1710		1710		2100	
WEIGHT (DRY)		2177		2245		2300		2920	
FUEL TANK MATERIAL		Plastic		Metal		Metal		Plastic	
FUEL TANK CAPACITY		636		420		420		636	
RUNNING TIME at 75% of load		13,27		9,41		9,10		11,07	
OPTIONALS **		OPTIONALS **		OPTIONALS **		OPTIONALS **		OPTIONALS **	
EFT - EXTENDED FUEL TANK (supplement)		2330		2330		2330		2330	
LTP - LEAK PROOF TRAY		S		S		S		S	
RES - RESIDENTIAL SILENCER		0	√	0	√	0	√	0	√
FEC - FLEXIBLE EXHAUST COMPENSATOR		0	√	0	√	0	√	0	√
CONTROL PANEL AVAILABLE		CONTROL PANEL AVAILABLE		CONTROL PANEL AVAILABLE		CONTROL PANEL AVAILABLE		CONTROL PANEL AVAILABLE	
AUTOMATIC CONTROL PANEL		⑪		⑪		⑪		⑪	
MODULAR PARALLEL PANEL		⑫		⑫		⑫		⑫	

THREE PHASE

S = Supplement (version available when ordered); for equipment and descriptions see page 71 - 0 = Accessory; for equipment and descriptions see page 71 - ● = Reference number; for descriptions and options see ELECTRICAL EQUIPMENT page 70 - √ standard - \*\* = Other configurations and detailed specifications are available on www.pramac.com

GSW 390 - 370 DIESEL

GENERATING SET		GSW390M		GSW330DO		GSW330V		GSW370V	
		THREE PHASE 480/277V**							
THREE PHASE		kW	kVA	kW	kVA	kW	kVA	kW	kVA
POWER SUPPLY		312,5	390,6	313,0	392,0	316,8	396,0	355,2	444,0
STAND BY POWER LTP		283,2	353,9	280,0	350,0	302,4	378,0	325,3	406,7
PRIME POWER PRP									
POWER SPECIFICATIONS		480 / 277		480 / 277		480 / 277		480 / 277	
VOLTAGE	Volt	60		60		60		60	
FREQUENCY	Hz	0,8		0,8		0,8		0,8	
POWER FACTOR	cos Φ								
ENGINE		MTU		Doosan		Volvo		Volvo	
BRAND		6R1600G20S		P126TI-2		TAD1342GE		TAD1342GE	
MODEL		Diesel		Diesel		Diesel		Diesel	
FUEL		10500		11051		12780		12780	
DISPLACEMENT	cc	1800		1800		1800		1800	
SPEED	rpm	6 in line		6 in line		6 in line		6 in line	
CYLINDER		Water		Water		Water		Water	
COOLING SYSTEM		Electric		Electric		Electric		Electric	
STARTING SYSTEM		24		24		24		24	
ELECTRIC CIRCUIT	Volt	Turbocharged intercooled		Turbocharged intercooled		Turbocharged intercooled		Turbocharged intercooled	
ASPIRATION		Electronic		Electronic		Electronic		Electronic	
SPEED GOVERNOR		Tier 3		Non Emission Certified		Tier 2		Tier 2	
EMISSION STAGE COMPLIANCE EPA		343		331,0		395		395	
STAND BY POWER LTP	kW	312		296,0		363		363	
PRIME POWER PRP	kW								
ALTERNATOR		Brushless		Brushless		Brushless		Brushless	
TYPE		4		4		4		4	
POLES		Electronic		Electronic		Electronic		Electronic	
VOLTAGE REGULATION SYSTEM		21		21		21		21	
ALTERNATOR PROTECTION	IP								
CONSUMPTION		60,76		56,00		61,07		65,76	
FUEL CONSUMPTION at 75% of load	L/h	77,26		73,80		80,72		86,86	
FUEL CONSUMPTION at 100% of load	L/h								
VERSION		OPEN	CANOPY	OPEN	CANOPY	OPEN	CANOPY	OPEN	CANOPY
DIMENSION AND WEIGHT		3300 3951		2900 3950		3300 3951		3300 3951	
LENGTH	mm	1400 1460		1200 1400		1460 1438		1460 1438	
WIDTH	mm	2100 2175		1710 2084		1965 2085		1965 2085	
HEIGHT	mm	2920 3740		2450 2920		3160 3671		3160 3671	
WEIGHT (DRY)	kg	Plastic Plastic		Metal Metal		Plastic Plastic		Plastic Plastic	
FUEL TANK MATERIAL		636 636		420 700		636 636		636 636	
FUEL TANK CAPACITY	L	10,47 10,47		7,50 12,50		10,41 10,41		9,67 9,67	
RUNNING TIME at 75% of load	h								
OPTIONALS **		2330		2330		2330		2330	
EFT - EXTENDED FUEL TANK (supplement)	L	S		S		S		S	
LTP - LEAK PROOF TRAY		0 √		0 √		0 √		0 √	
RES - RESIDENTIAL SILENCER		0 √		0 √		0 √		0 √	
FEC - FLEXIBLE EXHAUST COMPENSATOR									
CONTROL PANEL AVAILABLE		11		11		11		11	
AUTOMATIC CONTROL PANEL	ACP	12		12		12		12	
MODULAR PARALLEL PANEL	MPP								

THREE PHASE

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GSW 410 - 460 DIESEL

GENERATING SET		GSW410D0		GSW415V		GSW465M		GSW460V	
POWER SUPPLY		THREE PHASE 480/277V**							
THREE PHASE		kW	kVA	kW	kVA	kW	kVA	kW	kVA
STAND BY POWER LTP		350,0	437,0	368,6	460,8	377,3	471,6	408,2	510,2
PRIME POWER PRP		332,0	415,0	335,4	419,2	342,1	427,6	371,2	464,0
POWER SPECIFICATIONS		480 / 277		480 / 277		480 / 277		480 / 277	
VOLTAGE	Volt	60		60		60		60	
FREQUENCY	Hz	0,8		0,8		0,8		0,8	
POWER FACTOR	cos Φ	ENGINE		ENGINE		ENGINE		ENGINE	
BRAND		Doosan		Volvo		MTU		Volvo	
MODEL		P158LE-1		TAD1343GE		8V1600G10S		TAD1344GE	
FUEL		Diesel		Diesel		Diesel		Diesel	
DISPLACEMENT		14618		12780		14000		12780	
SPEED		1800		1800		1800		1800	
CYLINDER		8 V		6 in line		8 V		6 in line	
COOLING SYSTEM		Water		Water		Water		Water	
STARTING SYSTEM		Electric		Electric		Electric		Electric	
ELECTRIC CIRCUIT		24		24		24		24	
ASPIRATION		Turbocharged intercooled		Turbocharged intercooled		Turbocharged intercooled		Turbocharged intercooled	
SPEED GOVERNOR		Electronic		Electronic		Electronic		Electronic	
EMISSION STAGE COMPLIANCE EPA		Non Emission Certified		Tier 2		Tier 3		Tier 2	
STAND BY POWER LTP		386,0		406		408		449	
PRIME POWER PRP		350,0		371		371		410	
ALTERNATOR		ALTERNATOR		ALTERNATOR		ALTERNATOR		ALTERNATOR	
TYPE		Brushless		Brushless		Brushless		Brushless	
POLES		4		4		4		4	
VOLTAGE REGULATION SYSTEM		Electronic		Electronic		Electronic		Electronic	
ALTERNATOR PROTECTION		21		21		21		21	
CONSUMPTION		CONSUMPTION		CONSUMPTION		CONSUMPTION		CONSUMPTION	
FUEL CONSUMPTION at 75% of load		62,19		67,19		79,45		73,7	
FUEL CONSUMPTION at 100% of load		82,92		88,33		94,08		98,11	
VERSION		OPEN	CANOPY	OPEN	CANOPY	OPEN	CANOPY	OPEN	CANOPY
DIMENSION AND WEIGHT		DIMENSION AND WEIGHT		DIMENSION AND WEIGHT		DIMENSION AND WEIGHT		DIMENSION AND WEIGHT	
LENGTH		3100	4500	3300	3951	3300	4180	3300	3951
WIDTH		1400	1800	1400	1438	1806	1800	1460	1438
HEIGHT		2055	2334	1917	2085	2121	2160	1965	2085
WEIGHT (DRY)		2770	3787	3050	3671	3514	4660	3370	3671
FUEL TANK MATERIAL		Metal	Metal	Plastic	Plastic	Plastic	Plastic	Plastic	Plastic
FUEL TANK CAPACITY		420	700	636	636	636	636	636	636
RUNNING TIME at 75% of load		6,75	11,26	9,47	9,47	8,01	8,01	8,63	8,63
OPTIONALS **		OPTIONALS **		OPTIONALS **		OPTIONALS **		OPTIONALS **	
EFT - EXTENDED FUEL TANK (supplement)		4180		3270		3270		4180	
LTP - LEAK PROOF TRAY		S		S		S		S	
RES - RESIDENTIAL SILENCER		0	√	0	√	0	√	0	√
FEC - FLEXIBLE EXHAUST COMPENSATOR		0	√	0	√	0	√	0	√
CONTROL PANEL AVAILABLE		CONTROL PANEL AVAILABLE		CONTROL PANEL AVAILABLE		CONTROL PANEL AVAILABLE		CONTROL PANEL AVAILABLE	
AUTOMATIC CONTROL PANEL		11		11		11		11	
MODULAR PARALLEL PANEL		12		12		12		12	

THREE PHASE

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GSW 470 - 645 DIESEL

GENERATING SET		GSW470D0		GSW510D0		GSW510M		GSW645M	
POWER SUPPLY		THREE PHASE 480/277V**							
THREE PHASE		<b>kW</b>	<b>kVA</b>	<b>kW</b>	<b>kVA</b>	<b>kW</b>	<b>kVA</b>	<b>kW</b>	<b>kVA</b>
STAND BY POWER LTP		413,0	517,0	407,0	508,0	415,3	519,1	516,9	646,2
PRIME POWER PRP		360,0	450,0	368,0	460,0	377,3	471,6	469,3	586,7
POWER SPECIFICATIONS		480 / 277		480 / 277		480 / 277		480 / 277	
VOLTAGE	Volt	60		60		60		60	
FREQUENCY	Hz	0,8		0,8		0,8		0,8	
POWER FACTOR	cos Φ	Doosan		Doosan		MTU		MTU	
ENGINE		P158LE		DP158LDF		8V1600G20S		10V1600G20S	
BRAND		Diesel		Diesel		Diesel		Diesel	
MODEL		14618		14618		14000		17500	
FUEL		1800		1800		1800		1800	
DISPLACEMENT	cc	8 V		8 V		8 V		10 V	
SPEED	rpm	Water		Water		Water		Water	
CYLINDER		Electric		Electric		Electric		Electric	
COOLING SYSTEM		24		24		24		24	
STARTING SYSTEM	Volt	Turbocharged intercooled		Turbocharged intercooled		Turbocharged intercooled		Turbocharged intercooled	
ELECTRIC CIRCUIT		Electronic		Electronic		Electronic		Electronic	
ASPIRATION		Non Emission Certified		Non Emission Certified		Tier 3		Tier 2	
SPEED GOVERNOR		400,0		489,0		448,0		561,0	
EMISSION STAGE COMPLIANCE EPA		349,0		442,0		408,0		511,0	
STAND BY POWER LTP	kW	Brushless		Brushless		Brushless		Brushless	
PRIME POWER PRP	kW	4		4		4		4	
ALTERNATOR		Electronic		Electronic		Electronic		Electronic	
TYPE		21		21		21		21	
POLES		62,94		82,10		81,79		102,53	
VOLTAGE REGULATION SYSTEM		83,93		109,40		100,06		125,32	
ALTERNATOR PROTECTION	IP	OPEN		CANOPY		OPEN		CANOPY	
CONSUMPTION		3100		4500		3100		4500	
FUEL CONSUMPTION at 75% of load	L/h	1400		1800		1806		1800	
FUEL CONSUMPTION at 100% of load	L/h	2055		2334		2121		2160	
VERSION		2850		3869		2910		4296	
DIMENSION AND WEIGHT		Metal		Metal		Metal		Metal	
LENGTH	mm	420		700		636		636	
WIDTH	mm	6,67		11,12		5,12		8,53	
HEIGHT	mm	7,78		7,78		7,78		7,78	
WEIGHT (DRY)	kg	4180		4180		4620		4180	
FUEL TANK MATERIAL		S		S		S		S	
FUEL TANK CAPACITY	L	0		√		0		√	
RUNNING TIME at 75% of load	h	0		√		0		√	
OPTIONALS **		0		√		0		√	
EFT - EXTENDED FUEL TANK (supplement)	L	0		√		0		√	
LTP - LEAK PROOF TRAY		0		√		0		√	
RES - RESIDENTIAL SILENCER		0		√		0		√	
FEC - FLEXIBLE EXHAUST COMPENSATOR		0		√		0		√	
CONTROL PANEL AVAILABLE		⑪		⑪		⑪		⑪	
AUTOMATIC CONTROL PANEL	ACP	⑫		⑫		⑫		⑫	
MODULAR PARALLEL PANEL	MPP								

THREE PHASE

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GSW 560 - 630 DIESEL

GENERATING SET	GSW560V		GSW580DO		GSW600V		GSW630DO	
	THREE PHASE 480/277V**							
POWER SUPPLY	kW	kVA	kW	kVA	kW	kVA	kW	kVA
<b>THREE PHASE</b>								
STAND BY POWER LTP	519,8	649,7	526,0	657,0	556,9	696,2	566,0	707,0
PRIME POWER PRP	461,7	577,2	458,0	572,0	506,5	633,1	512,0	640,0
<b>POWER SPECIFICATIONS</b>								
VOLTAGE	480 / 277		480 / 277		480 / 277		480 / 277	
FREQUENCY	60		60		60		60	
POWER FACTOR	0,8		0,8		0,8		0,8	
<b>ENGINE</b>								
BRAND	Volvo		Doosan		Volvo		Doosan	
MODEL	TAD1641GE		DP158LDF		TAD1642GE		DP158LDF	
FUEL	Diesel		Diesel		Diesel		Diesel	
DISPLACEMENT	16120		14618		16120		18273	
SPEED	1800		1800		1800		1800	
CYLINDER	6 in line		8 V		6 in line		10 V	
COOLING SYSTEM	Water		Water		Water		Water	
STARTING SYSTEM	Electric		Electric		Electric		Electric	
ELECTRIC CIRCUIT	24		24		24		24	
ASPIRATION	Turbocharged intercooled		Turbocharged intercooled		Turbocharged intercooled		Turbocharged intercooled	
SPEED GOVERNOR	Electronic		Electronic		Electronic		Electronic	
EMISSION STAGE COMPLIANCE EPA	Tier 2		Non Emission Certified		Tier 2		Non Emission Certified	
STAND BY POWER LTP	565,0		494,0		604,0		591,0	
PRIME POWER PRP	504,0		448,0		551,0		535,0	
<b>ALTERNATOR</b>								
TYPE	Brushless		Brushless		Brushless		Brushless	
POLES	4		4		4		4	
VOLTAGE REGULATION SYSTEM	Electronic		Electronic		Electronic		Electronic	
ALTERNATOR PROTECTION	21		21		21		21	
<b>CONSUMPTION</b>								
FUEL CONSUMPTION at 75% of load	91,68		83,4		97,74		106,6	
FUEL CONSUMPTION at 100% of load	123,6		115,1		131,85		140,5	
<b>VERSION</b>	<b>OPEN</b>	<b>CANOPY</b>	<b>OPEN</b>	<b>CANOPY</b>	<b>OPEN</b>	<b>CANOPY</b>	<b>OPEN</b>	<b>CANOPY</b>
<b>DIMENSION AND WEIGHT</b>								
LENGTH	3500	4400	3500	4500	3500	4400	3500	4500
WIDTH	1500	1560	1400	1800	1500	1560	1400	1800
HEIGHT	2120	2250	2090	2334	2120	2250	2110	2334
WEIGHT (DRY)	3467	4495	3400	4296	3620	4888	3900	4900
FUEL TANK MATERIAL	Plastic	Plastic	Metal	Metal	Plastic	Plastic	Metal	Metal
FUEL TANK CAPACITY	636	636	700	700	636	636	700	700
RUNNING TIME at 75% of load	6,94	6,94	8,39	8,39	6,51	6,51	6,57	6,57
<b>OPTIONALS **</b>								
EFT - EXTENDED FUEL TANK (supplement)	4180		3270		4180		3270	
LTP - LEAK PROOF TRAY	S		S		S		S	
RES - RESIDENTIAL SILENCER	0	√	0	√	0	√	0	√
FEC - FLEXIBLE EXHAUST COMPENSATOR	0	√	0	√	0	√	0	√
<b>CONTROL PANEL AVAILABLE</b>								
AUTOMATIC CONTROL PANEL	⑪		⑪		⑪		⑪	
MODULAR PARALLEL PANEL	⑫		⑫		⑫		⑫	

THREE PHASE

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GSW 705 - 705 DIESEL

GENERATING SET	GSW705D0		GSW700M		GSW760M		GSW705V	
	THREE PHASE 480/277V**							
POWER SUPPLY	kW	kVA	kW	kVA	kW	kVA	kW	kVA
<b>THREE PHASE</b>								
STAND BY POWER LTP	553,0	691,0	560,3	700,4	615,9	769,9	617,0	771,2
PRIME POWER PRP	610,0	763,0	510,8	638,6	558,5	698,1	560,4	700,5
<b>POWER SPECIFICATIONS</b>								
VOLTAGE	480 / 277		480 / 277		480 / 277		480 / 277	
FREQUENCY	60		60		60		60	
POWER FACTOR	0,8		0,8		0,8		0,8	
<b>ENGINE</b>								
BRAND	Doosan		MTU		MTU		Volvo	
MODEL	DP180LBF		12V1600G10S		12V1600G20S		TWD1643GE	
FUEL	Diesel		Diesel		Diesel		Diesel	
DISPLACEMENT	18273		21000		21000		16120	
SPEED	1800		1800		1800		1800	
CYLINDER	10 V		12 V		12 V		6 in line	
COOLING SYSTEM	Water		Water		Water		Water	
STARTING SYSTEM	Electric		Electric		Electric		Electric	
ELECTRIC CIRCUIT	24		24		24		24	
ASPIRATION	Turbocharged intercooled		Turbocharged intercooled		Turbocharged intercooled		Turbocharged intercooled	
SPEED GOVERNOR	Electronic		Electronic		Electronic		Electronic	
EMISSION STAGE COMPLIANCE EPA	Non Emission Certified		Tier 2		Tier 2		Tier 2	
STAND BY POWER LTP	596,0		613,0		668,0		674,0	
PRIME POWER PRP	540,0		561,0		608,0		615,0	
<b>ALTERNATOR</b>								
TYPE	Brushless		Brushless		Brushless		Brushless	
POLES	4		4		4		4	
VOLTAGE REGULATION SYSTEM	Electronic		Electronic		Electronic		Electronic	
ALTERNATOR PROTECTION	21		21		21		21	
<b>CONSUMPTION</b>								
FUEL CONSUMPTION at 75% of load	114,2		104,37		108,17		108,98	
FUEL CONSUMPTION at 100% of load	150,7		134,24		141,87		147,89	
<b>VERSION</b>	OPEN	CANOPY	OPEN	CANOPY	OPEN	CANOPY	OPEN	CANOPY
<b>DIMENSION AND WEIGHT</b>								
LENGTH	3500	4500	3811	4700	3811	4700	3800	4700
WIDTH	1400	1800	1670	1757	1670	1757	1670	1757
HEIGHT	2110	2334	2322	2430	2322	2430	2320	2510
WEIGHT (DRY)	4100	5200	4938	5840	4994	5895	4590	5490
FUEL TANK MATERIAL	Metal	Metal	Plastic	Plastic	Plastic	Plastic	Plastic	Plastic
FUEL TANK CAPACITY	700	700	636	636	636	636	636	636
RUNNING TIME at 75% of load	6,13	6,13	6,09	6,09	5,88	5,88	5,84	5,84
<b>OPTIONALS **</b>								
EFT - EXTENDED FUEL TANK (supplement)	4180		4620		4620		4620	
LTP - LEAK PROOF TRAY	S		S		S		S	
RES - RESIDENTIAL SILENCER	0	√	0	√	0	√	0	√
FEC - FLEXIBLE EXHAUST COMPENSATOR	0	√	0	√	0	√	0	√
<b>CONTROL PANEL AVAILABLE</b>								
AUTOMATIC CONTROL PANEL	⑪		⑪		⑪		⑪	
MODULAR PARALLEL PANEL	⑫		⑫		⑫		⑫	

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# ELECTRICAL EQUIPMENT

## GSW SERIES 275 - 760

### CONTROL PANELS Type

Control panels with controls, instrumentations and protections to meet multiple applications. Designed for dedicated metallic box assembled and integrated into the generator.

### ACP <sup>①</sup> Automatic Control Panel



### MPP <sup>②</sup> Modular Parallel Panel



### OPERATIONAL TYPES

MANUAL START/STOP	√	√
AUTOMATIC MAIN FAILURE	√ (with LTS)	√ (with ATS)
AUTOMATIC START/STOP (remote)	√	√
PARALLEL RUNNING	-	√

### COMMAND

OPERATION MODES	OFF Manual starting Automatic starting Automatic test	OFF Manual starting Automatic function Multiple parallel genset Parallel to Mains
EMERGENCY STOP BUTTON	√	√
CIRCUIT BREAKER	√	√

### INSTRUMENTATIONS

TYPE	Digital control unit	Digital control unit
GENSET VOLTAGE	3 phases sensing	3 phases sensing
GENSET CURRENT INTENSITY	3 phases sensing	3 phases sensing
FREQUENCY METER	√	√
HOUR METER	√	√
FUEL LEVEL	√	√
OIL PRESSURE	√	√
ENGINE TEMPERATURE	√	√
GENERATING SET POWER	kVA - kW - kVAr - Cos Φ	kVA - kW - kVAr - Cos Φ
BATTERY VOLTAGE	√	√
MAINS VOLTAGE	√	√
ENGINE SPEED R.P.M.	√	√

### PROTECTIONS

LOW FUEL LEVEL	√	√
LOW OIL PRESSURE	√	√
HIGH ENGINE TEMPERATURE	√	√
BATTERY CHARGER FAILURE	√	√
EARTH FAULT	√	√
CIRCUIT BREAKER PROTECTION	III Poles	IV Poles (motorized)
UNDER/OVER VOLTAGE	√	√
UNDER/OVER FREQUENCY	√	√
REVERSE POWER	√	√

### OUTPUT\*\*

ETB - EXTERNAL TERMINAL BOARD	√	√
TERMINALS CONNECTION FOR LTS PANEL	√	-
PREDISPOSED FOR REMOTE CONTROL RCG	√	√
RS232 COMMUNICATION PORT	√	√
MULTI-PIN CONNECTORS FOR PARALLEL GE	-	√
RSS - REMOTE START & STOP	√	√

### OPTIONALS \*\*

TIF - IV POLES CIRCUIT BREAKER	S	√
ADI - EARTH FAULT PROTECTION RELAY	S	S
SKB/SKC - SOCKET KIT:	S	-
TLP - TERMINAL LOW POTENTIAL	S	S
RCG - REMOTE CONTROLS	S	S
PHS - COOLANT PRE-HEATING SYSTEM	S	S
AFP - AUTOMATIC FUEL PUMP	S	S
LTS - LOAD TRANSFER SWITCH	0	-
ATS - AUTOMATIC TRANSFER SWITCH	0	0

√ = Standard - 0 = Accessory available - S = Supplement (version available when ordered) - - = Not available - \*\* = Other configurations and detailed specifications are available on [www.pramac.com](http://www.pramac.com)

# OPTIONALS

## GSW SERIES 275 - 760

### SUPPLEMENTS AND ACCESSORIES \*\*

#### LTS - LOAD TRANSFER SWITCH

To transfer the load from the mains to the generator and vice versa. The logic control of the power supply changeover is operated by the Automatic Mains Control (ATS) mounted on the generator



#### EFT - EXTENDED FUEL TANK

Larger metal fuel tank integrated in a bigger base frame allowing longer genset autonomy, at least till 48h at 75% PRP. Provided with pull bars and drainage facility



#### ATS - AUTOMATIC TRANSFER SWITCH

The ATS panel is complete with monitoring logic mains (inteliATS) and internal change-over switches. In the case of any mains supply disproportion it sends a remote start command to the generator and makes change over for both generator and mains contactors



#### EXHAUST SYSTEM

The open version can be equipped with Industrial or Residential silencer



#### AFP - AUTOMATIC FUEL PUMP

Automatic fuel transfer system from an external storage fuel tank to the one integrated in the generator



#### RCG - REMOTE CONTROL

Large list of additional modules/devices for remote operation and control of the generating set



#### PHS - COOLANT PREHEATING SYSTEM

To maintain the engine at a temperature that ensures a quick start when required



\*\*= Other configurations and detailed specifications are available on [www.pramac.com](http://www.pramac.com)

