

# GSW 815-4000



From 815 to 4000kVA, these heavy-duty generating sets are designed for high power demands. Regardless of the field of activity, whether it is medical, telecommunications or industrial, the GSW Higher Power Series is your reliable partner to serve your customer's needs. With a modular layout, these generators meet the requirements of different market areas, enjoying the economic benefits of a standard production.

## OPEN



Moving rotating parts protections



Manual lube oil drain pump



Heavy-duty anti-vibrations mountings



Efficient air filters



GSW 815-4000

## CANOPY



Large doors for easy service and maintenance



Control panel doors (one each side)



Niche for external emergency push-button



Robust and lockable door handles



GSW 815-1650

## CONTAINER



Internal lighting system



ISO lifting hooks



Removable metal plate for power cable passage



Container floor with crosshatch metal pattern surface



GSW 815-4000

GSW 815 - 1025 DIESEL

GENERATING SET	GSW815P			GSW875P			GSW1025M		
	THREE PHASE 480/277V**								
POWER SUPPLY	kW	kVA		kW	kVA		kW	kVA	
THREE PHASE	669	836		758	947		819	1023	
STAND BY POWER LTP									
PRIME POWER PRP	608	760		681	852		741	927	
POWER SPECIFICATIONS									
VOLTAGE	480 / 277			480 / 277			480 / 277		
FREQUENCY	60			60			60		
POWER FACTOR	0,8			0,8			0,8		
ENGINE									
BRAND	Perkins			Perkins			MTU		
MODEL	4006-23TAG2A			4006-23TAG3A			12V2000G85		
FUEL	Diesel			Diesel			Diesel		
DISPLACEMENT	22921			22921			23880		
SPEED	1800			1800			1800		
CYLINDER	6 in line			6 in line			12 V		
COOLING SYSTEM	Water			Water			Water		
STARTING SYSTEM	Electric			Electric			Electric		
ELECTRIC CIRCUIT	24			24			24		
ASPIRATION	Turbocharged aftercooled			Turbocharged aftercooled			Turbocharged aftercooled		
SPEED GOVERNOR	Electronic			Electronic			Electronic		
STAND BY POWER LTP	746			839			891		
PRIME POWER PRP	682			759			810		
ALTERNATOR									
TYPE	Brushless			Brushless			Brushless		
POLES	4			4			4		
VOLTAGE REGULATION SYSTEM	Electronic			Electronic			Electronic		
ALTERNATOR PROTECTION	21			21			21		
CONSUMPTION									
FUEL CONSUMPTION at 75% of load	132,11			147,4			153,42		
FUEL CONSUMPTION at 100% of load	181,87			204,21			201,53		
VERSION									
DIMENSION AND WEIGHT									
LENGTH	4100	6541	6055	4100	6541	6055	4100	6541	6055
WIDTH	2130	2171	2438	2130	2171	2438	2130	2171	2438
HEIGHT	2218	2679	2591	2218	2679	2591	2294	2679	2591
WEIGHT (DRY)	6641	8491	9641	6641	8650	9641	6472	8332	9472
GENSET EQUIPMENT - BASIC CONFIGURATIONS AVAILABLE**:									
BAT - LEAD-ACID STARTING BATTERIES KIT	S			S			S		
IFT - INTEGRATED FUEL TANK	S			S			S		
FUEL TANK MATERIAL	Metal			Metal			Metal		
CAPACITY AVAILABLE (IFT1 or IFT2)	500 / 1000			500 / 1000			500 / 1000		
RUNNING TIME at 75% of load	3,8 / 7,6			3,4 / 6,8			3,3 / 6,5		
FBD - FULLY BUNDED BASE FRAME	S			S			S		
LDS - LEAKAGE DETECTION SENSOR (ONLY WITH FBD)	S			S			S		
AFP - AUTOMATIC FUEL PUMP	S			S			S		
PHS - COOLANT PRE-HEATING SYSTEM	S			S			S		
EPA - EMISSION STAGE COMPLIANCE Tier 2	-			-			S		
SYSTEMS EXHAUST SILENCER AVAILABLE (for OPEN version)									
IES - INDUSTRIAL SILENCER -15 db(A)	S	-	-	S	-	-	S	-	-
RES - RESIDENTIAL SILENCER -35/38 db(A)	S	√	√	S	√	√	S	√	√
FEC - FLEXIBLE EXHAUST COMPENSATOR	S	√	√	S	√	√	S	√	√
CONTROL PANEL AVAILABLE (for OPEN version)									
AUTOMATIC CONTROL PANEL ACP	13			13			13		
MODULAR PARALLEL PANEL MPP	14			14			14		

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**GSW 1160 - 1290 DIESEL**

GENERATING SET	GSW1160M			GSW1050P			GSW1290M		
	THREE PHASE 480/277V**								
POWER SUPPLY	kW	kVA		kW	kVA		kW	kVA	
THREE PHASE	923	1153		840	1050		1027	1284	
STAND BY POWER LTP	834	1043		799	998		927	1159	
PRIME POWER PRP									
<b>POWER SPECIFICATIONS</b>									
VOLTAGE	480 / 277			480 / 277			480 / 277		
FREQUENCY	60			60			60		
POWER FACTOR	0,8			0,8			0,8		
<b>ENGINE</b>									
BRAND	MTU			Perkins			MTU		
MODEL	16V2000G45			4008 TAG2			16V2000G85		
FUEL	Diesel			Diesel			Diesel		
DISPLACEMENT	31840			30561			31840		
SPEED	1800			1800			1800		
CYLINDER	16 V			8 in line			16 V		
COOLING SYSTEM	Water			Water			Water		
STARTING SYSTEM	Electric			Electric			Electric		
ELECTRIC CIRCUIT	24			24			24		
ASPIRATION	Turbocharged aftercooled			Turbocharged			Turbocharged aftercooled		
SPEED GOVERNOR	Electronic			Electronic			Electronic		
STAND BY POWER LTP	1007			980			1114		
PRIME POWER PRP	915			894			1010		
<b>ALTERNATOR</b>									
TYPE	Brushless			Brushless			Brushless		
POLES	4			4			4		
VOLTAGE REGULATION SYSTEM	Electronic			Electronic			Electronic		
ALTERNATOR PROTECTION	IP			21			21		
<b>CONSUMPTION</b>									
FUEL CONSUMPTION at 75% of load	174,31			167,38			191,02		
FUEL CONSUMPTION at 100% of load	224,39			226,69			246,49		
<b>VERSION</b>	<b>OPEN</b>	<b>CANOPY</b>	<b>CONTAINER</b>	<b>OPEN</b>	<b>CANOPY</b>	<b>CONTAINER</b>	<b>OPEN</b>	<b>CANOPY</b>	<b>CONTAINER</b>
<b>DIMENSION AND WEIGHT</b>									
LENGTH	4226	6541	6055	4646	7800	12190	4426	6541	6055
WIDTH	2130	2171	2438	2122	2424	2438	2130	2171	2438
HEIGHT	2295	2679	2591	2466	2997	2896	2295	2679	2591
WEIGHT (DRY)	7150	9210	10150	8170	11067	14667	7455	9515	10455
<b>GENSET EQUIPMENT - BASIC CONFIGURATIONS AVAILABLE**:</b>									
BAT - LEAD-ACID STARTING BATTERIES KIT	S			S			S		
IFT - INTEGRATED FUEL TANK	S			S			S		
FUEL TANK MATERIAL	Metal			Metal			Metal		
CAPACITY AVAILABLE [IFT1 or IFT2]	500 / 1000			500 / 1000			500 / 1000		
RUNNING TIME at 75% of load	2,9 / 5,7			3,0 / 6,0			2,6 / 5,2		
FBD - FULLY BUNDED BASE FRAME	S			S			S		
LDS - LEAKAGE DETECTION SENSOR (ONLY WITH FBD)	S			S			S		
AFP - AUTOMATIC FUEL PUMP	S			S			S		
PHS - COOLANT PRE-HEATING SYSTEM	S			S			S		
EPA - EMISSION STAGE COMPLIANCE Tier 2	S			-			S		
<b>SYSTEMS EXHAUST SILENCER AVAILABLE (for OPEN version)</b>	<b>OPEN</b>	<b>CANOPY</b>	<b>CONTAINER</b>	<b>OPEN</b>	<b>CANOPY</b>	<b>CONTAINER</b>	<b>OPEN</b>	<b>CANOPY</b>	<b>CONTAINER</b>
IES - INDUSTRIAL SILENCER -15 db(A)	S	-	-	S	-	-	S	-	-
RES - RESIDENTIAL SILENCER -35/38 db(A)	S	√	√	S	√	√	S	√	√
FEC - FLEXIBLE EXHAUST COMPENSATOR	S	√	√	S	√	√	S	√	√
<b>CONTROL PANEL AVAILABLE (for OPEN version)</b>									
AUTOMATIC CONTROL PANEL ACP	13			13			13		
MODULAR PARALLEL PANEL MPP	14			14			14		

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GSW 1400 - 1650 DIESEL

GENERATING SET		GSW1400P			GSW1520M			GSW1510P			GSW1650P		
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>	<b>kW</b>	<b>kVA</b>		
STAND BY POWER LTP		1124	1405	1217	1521	1220	1525	1345	1681				
PRIME POWER PRP		1017	1271	1102	1377	1110	1387	1222	1528				
<b>POWER SPECIFICATIONS</b>		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		Perkins			MTU			Perkins			Perkins		
<b>ENGINE</b>		4012-46TWG2A			18V2000G85			4012-46TWG3A			4012-46TAG2A		
BRAND		Diesel			Diesel			Diesel			Diesel		
MODEL		45842			35820			45842			45842		
FUEL		1800			1800			1800			1800		
DISPLACEMENT cc		12 V			18 V			12 V			12 V		
SPEED rpm		Water			Water			Water			Water		
CYLINDER		Electric			Electric			Electric			Electric		
COOLING SYSTEM		24			24			24			24		
STARTING SYSTEM		Turbocharged aftercooled			Turbocharged aftercooled			Turbocharged			Turbocharged		
ELECTRIC CIRCUIT Volt		Electronic			Electronic			Electronic			Electronic		
ASPIRATION		1217			1310			1314			1459		
SPEED GOVERNOR		1106			1191			1200			1332		
STAND BY POWER LTP kW		Brushless			Brushless			Brushless			Brushless		
PRIME POWER PRP kW		4			4			4			4		
<b>ALTERNATOR</b>		Electronic			Electronic			Electronic			Electronic		
TYPE		21			21			21			21		
POLES		217,37			225,02			235,56			267,73		
VOLTAGE REGULATION SYSTEM		285,72			289,24			310,00			338,07		
ALTERNATOR PROTECTION IP		<b>VERSION</b>			<b>VERSION</b>			<b>VERSION</b>			<b>VERSION</b>		
CONSUMPTION		<b>OPEN</b>	<b>CANOPY</b>	<b>CONTAINER</b>	<b>OPEN</b>	<b>CANOPY</b>	<b>CONTAINER</b>	<b>OPEN</b>	<b>CANOPY</b>	<b>CONTAINER</b>	<b>OPEN</b>	<b>CANOPY</b>	<b>CONTAINER</b>
FUEL CONSUMPTION at 75% of load L/h		5004	7800	12190	4646	7800	12190	5004	7800	12190	5004	7800	12190
FUEL CONSUMPTION at 100% of load L/h		2200	2424	2438	2122	2424	2438	2200	2424	2438	2200	2424	2438
LENGTH mm		2504	2997	2896	2466	2997	2896	2574	2997	2896	2574	2997	2896
WIDTH mm		10040	12740	16040	9179	11579	15179	10330	13030	16330	11074	14000	17074
HEIGHT mm													
WEIGHT (DRY) kg													
<b>GENSET EQUIPMENT - BASIC CONFIGURATIONS AVAILABLE**:</b>													
BAT - LEAD-ACID STARTING BATTERIES KIT		S			S			S			S		
IFT - INTEGRATED FUEL TANK		S			S			S			S		
FUEL TANK MATERIAL		Metal			Metal			Metal			Metal		
CAPACITY AVAILABLE [IFT1 or IFT2] L		500 / 1000			500 / 1000			500 / 1000			500 / 1000		
RUNNING TIME at 75% of load h		2,3 / 4,6			2,2 / 4,4			2,1 / 4,2			1,9 / 3,7		
FBD - FULLY BUNDED BASE FRAME		S			S			S			S		
LDS - LEAKAGE DETECTION SENSOR (ONLY WITH FBD)		S			S			S			S		
AFP - AUTOMATIC FUEL PUMP		S			S			S			S		
PHS - COOLANT PRE-HEATING SYSTEM		S			S			S			S		
EPA - EMISSION STAGE COMPLIANCE Tier 2		-			S			-			-		
<b>SYSTEMS EXHAUST SILENCER AVAILABLE (for OPEN version)</b>		<b>OPEN</b>	<b>CANOPY</b>	<b>CONTAINER</b>	<b>OPEN</b>	<b>CANOPY</b>	<b>CONTAINER</b>	<b>OPEN</b>	<b>CANOPY</b>	<b>CONTAINER</b>	<b>OPEN</b>	<b>CANOPY</b>	<b>CONTAINER</b>
IES - INDUSTRIAL SILENCER -15 db(A)		S	-	-	S	-	-	S	-	-	S	-	-
RES - RESIDENTIAL SILENCER -35/38 db(A)		S	√	√	S	√	√	S	√	√	S	√	√
FEC - FLEXIBLE EXHAUST COMPENSATOR		S	√	√	S	√	√	S	√	√	S	√	√
<b>CONTROL PANEL AVAILABLE (for OPEN version)</b>													
AUTOMATIC CONTROL PANEL ACP		13			13			13			13		
MODULAR PARALLEL PANEL MPP		14			14			14			14		

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**GSW 1780 - 2240 DIESEL**

GENERATING SET	GSW1780P		GSW1950M		GSW2240M	
	THREE PHASE 480/277V**					
POWER SUPPLY	kW	kVA	kW	kVA	kW	kVA
<b>THREE PHASE</b>						
STAND BY POWER LTP	1525	1907	1567	1959	1800	2251
PRIME POWER PRP	1387	1734	1420	1775	1632	2040
<b>POWER SPECIFICATIONS</b>						
VOLTAGE	480 / 277		480 / 277		480 / 277	
FREQUENCY	60		60		60	
POWER FACTOR	0,8		0,8		0,8	
<b>ENGINE</b>						
BRAND	Perkins		MTU		MTU	
MODEL	4012-46TAG3A		12V4000G43		12V4000G83	
FUEL	Diesel		Diesel		Diesel	
DISPLACEMENT	45842		57199		57200	
SPEED	1800		1800		1800	
CYLINDER	12 V		12 V		12 V	
COOLING SYSTEM	Water		Water		Water	
STARTING SYSTEM	Electric		Electric		Electric	
ELECTRIC CIRCUIT	24		24		24	
ASPIRATION	Turbocharged aftercooled		Turbocharged aftercooled		Turbocharged aftercooled	
SPEED GOVERNOR	Electronic		Electronic		Electronic	
STAND BY POWER LTP	1643		1672		1910	
PRIME POWER PRP	1500		1520		1736	
<b>ALTERNATOR</b>						
TYPE	Brushless		Brushless		Brushless	
POLES	4		4		4	
VOLTAGE REGULATION SYSTEM	Electronic		Electronic		Electronic	
ALTERNATOR PROTECTION	21		21		21	
<b>CONSUMPTION</b>						
FUEL CONSUMPTION at 75% of load	300,49		273,3		309,23	
FUEL CONSUMPTION at 100% of load	380,36		354,67		413,33	
<b>VERSION</b>	<b>OPEN</b>	<b>CONTAINER</b>	<b>OPEN</b>	<b>CONTAINER</b>	<b>OPEN</b>	<b>CONTAINER</b>
LENGTH	5004	12190	6000	12190	6000	12190
WIDTH	2200	2438	2150	2438	2150	2438
HEIGHT	2610	2896	2722	2896	2722	2896
WEIGHT (DRY)	11561	17561	12150	20150	12430	20430
<b>GENSET EQUIPMENT - BASIC CONFIGURATIONS AVAILABLE**:</b>						
BAT - LEAD-ACID STARTING BATTERIES KIT	S		S		S	
IFT - INTEGRATED FUEL TANK	S		S		S	
FUEL TANK MATERIAL	Metal		Metal		Metal	
CAPACITY AVAILABLE (IFT1 or IFT2)	500 / 1000		500 / 1000		500 / 1000	
RUNNING TIME at 75% of load	1,7 / 3,3		1,8 / 3,7		1,6 / 3,2	
FBD - FULLY BUNDED BASE FRAME	S		S		S	
LDS - LEAKAGE DETECTION SENSOR (ONLY WITH FBD)	S		S		S	
AFP - AUTOMATIC FUEL PUMP	S		S		S	
PHS - COOLANT PRE-HEATING SYSTEM	S		S		S	
EPA - EMISSION STAGE COMPLIANCE Tier 2	-		S		S	
<b>SYSTEMS EXHAUST SILENCER AVAILABLE (for OPEN version)</b>	<b>OPEN</b>	<b>CONTAINER</b>	<b>OPEN</b>	<b>CONTAINER</b>	<b>OPEN</b>	<b>CONTAINER</b>
IES - INDUSTRIAL SILENCER -15 db(A)	S	-	S	-	S	-
RES - RESIDENTIAL SILENCER -35/38 db(A)	S	√	S	√	S	√
FEC - FLEXIBLE EXHAUST COMPENSATOR	S	√	S	√	S	√
<b>CONTROL PANEL AVAILABLE</b>						
AUTOMATIC CONTROL PANEL ACP	13		13		13	
MODULAR PARALLEL PANEL MPP	14		14		14	

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GSW 2620 - 3220 DIESEL

GENERATING SET	GSW2620M		GSW2970M		GSW3220M			
	THREE PHASE 480/277V**							
POWER SUPPLY	kW	kVA	kW	kVA	kW	kVA		
THREE PHASE								
STAND BY POWER LTP	2093	2616	2377	2971	2577	3221		
PRIME POWER PRP	1897	2372	2156	2695	2338	2922		
<b>POWER SPECIFICATIONS</b>								
VOLTAGE	480 / 277		480 / 277		480 / 277			
FREQUENCY	60		60		60			
POWER FACTOR	0,8		0,8		0,8			
<b>ENGINE</b>								
BRAND	MTU		MTU		MTU			
MODEL	16V4000G43		16V4000G83		20V4000G43			
FUEL	Diesel		Diesel		Diesel			
DISPLACEMENT	76300		76300		95400			
SPEED	1800		1800		1800			
CYLINDER	16 V		16 V		20V			
COOLING SYSTEM	Water		Water		Water			
STARTING SYSTEM	Electric		Electric		Electric			
ELECTRIC CIRCUIT	24		24		24			
ASPIRATION	Turbocharged aftercooled		Turbocharged aftercooled		Turbocharged intercooled			
SPEED GOVERNOR	Electronic		Electronic		Electronic			
STAND BY POWER LTP	2222		2508		2739			
PRIME POWER PRP	2020		2280		2490			
<b>ALTERNATOR</b>								
TYPE	Brushless		Brushless		Brushless			
POLES	4		4		4			
VOLTAGE REGULATION SYSTEM	Electronic		Electronic		Electronic			
ALTERNATOR PROTECTION	21		21		23			
<b>CONSUMPTION</b>								
FUEL CONSUMPTION at 75% of load	369,02		405,8		447			
FUEL CONSUMPTION at 100% of load	480,95		542,86		580			
<b>VERSION</b>	OPEN		CONTAINER		OPEN		CONTAINER	
LENGTH	6800		12190		6800		12190	
WIDTH	2150		2438		2150		2438	
HEIGHT	2772		2896		2622		2896	
WEIGHT (DRY)	15620		23620		15900		23900	
20500		28500						
<b>GENSET EQUIPMENT - BASIC CONFIGURATIONS AVAILABLE**:</b>								
BAT - LEAD-ACID STARTING BATTERIES KIT		S		S		S		
IFT - INTEGRATED FUEL TANK		S		S		S		
FUEL TANK MATERIAL		Metal		Metal		Metal		
CAPACITY AVAILABLE [IFT1 or IFT2]		500 / 1000		500 / 1000		500 / 1000		
RUNNING TIME at 75% of load		1,4 / 2,7		1,2 / 2,5		1,1 / 2,2		
FBD - FULLY BUNDED BASE FRAME		S		S		S		
LDS - LEAKAGE DETECTION SENSOR (ONLY WITH FBD)		S		S		S		
AFP - AUTOMATIC FUEL PUMP		S		S		S		
PHS - COOLANT PRE-HEATING SYSTEM		S		S		S		
EPA - EMISSION STAGE COMPLIANCE Tier 2		S		S		S		
<b>SYSTEMS EXHAUST SILENCER AVAILABLE (for OPEN version)</b>								
IES - INDUSTRIAL SILENCER		-15 db(A)		S		-		S
RES - RESIDENTIAL SILENCER		-35/38 db(A)		S		√		S
FEC - FLEXIBLE EXHAUST COMPENSATOR		S		S		√		S
<b>CONTROL PANEL AVAILABLE</b>								
AUTOMATIC CONTROL PANEL		ACP		13		13		13
MODULAR PARALLEL PANEL		MPP		14		14		14

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**GSW 3620 - 4000 DIESEL**

GENERATING SET		GSW3620M		GSW4000M	
		THREE PHASE 480/277V**			
POWER SUPPLY		kW	kVA	kW	kVA
<b>THREE PHASE</b>					
STAND BY POWER LTP		2893	3617	3168	3960
PRIME POWER PRP		2630	3288	2890	3612
<b>POWER SPECIFICATIONS</b>					
VOLTAGE	Volt	480 / 277		480 / 277	
FREQUENCY	Hz	60		60	
POWER FACTOR	cos Φ	0,8		0,8	
<b>ENGINE</b>					
BRAND		MTU		MTU	
MODEL		20V4000G83		20V4000G83L	
FUEL		Diesel		Diesel	
DISPLACEMENT		95400 cc		95400	
SPEED		1800 rpm		1800	
CYLINDER		20 V		20 V	
COOLING SYSTEM		Water		Water	
STARTING SYSTEM		Electric		Electric	
ELECTRIC CIRCUIT		24 Volt		24	
ASPIRATION		Turbocharged aftercooled		Turbocharged aftercooled	
SPEED GOVERNOR		Electronic		Electronic	
STAND BY POWER LTP		3014 kW		3311	
PRIME POWER PRP		2740 kW		3010	
<b>ALTERNATOR</b>					
TYPE		Brushless		Brushless	
POLES		4		4	
VOLTAGE REGULATION SYSTEM		Electronic		Electronic	
ALTERNATOR PROTECTION		23 IP		23	
<b>CONSUMPTION</b>					
FUEL CONSUMPTION at 75% of load		493 L/h		535	
FUEL CONSUMPTION at 100% of load		650 L/h		730	
<b>VERSION</b>		<b>OPEN</b>	<b>CONTAINER</b>	<b>OPEN</b>	<b>CONTAINER</b>
LENGTH		7535 mm	12190	7535	12190
WIDTH		2280 mm	2438	2288	2438
HEIGHT		3239 mm	2896	3239	2896
WEIGHT (DRY)		22500 kg	29800	21800	30500
<b>GENSET EQUIPMENT - BASIC CONFIGURATIONS AVAILABLE**:</b>					
BAT - LEAD-ACID STARTING BATTERIES KIT		S		S	
IFT - INTEGRATED FUEL TANK		S		S	
FUEL TANK MATERIAL		Metal		Metal	
CAPACITY AVAILABLE [IFT1 or IFT2]		500 / 1000 L		500 / 1000	
RUNNING TIME at 75% of load		1,0 / 2,0 h		0,9 / 1,9	
FBD - FULLY BUNDED BASE FRAME		S		S	
LDS - LEAKAGE DETECTION SENSOR (ONLY WITH FBD)		S		S	
AFP - AUTOMATIC FUEL PUMP		S		S	
PHS - COOLANT PRE-HEATING SYSTEM		S		S	
EPA - EMISSION STAGE COMPLIANCE Tier 2		S		S	
<b>SYSTEMS EXHAUST SILENCER AVAILABLE (for OPEN version)</b>		<b>OPEN</b>	<b>CONTAINER</b>	<b>OPEN</b>	<b>CONTAINER</b>
IES - INDUSTRIAL SILENCER -15 db(A)		S	-	S	-
RES - RESIDENTIAL SILENCER -35/38 db(A)		S	√	S	√
FEC - FLEXIBLE EXHAUST COMPENSATOR		S	√	S	√
<b>CONTROL PANEL AVAILABLE</b>					
AUTOMATIC CONTROL PANEL ACP		13		13	
MODULAR PARALLEL PANEL MPP		14		14	

- = Not available - S = Supplement (version available when ordered); for equipment and descriptions see page 81 - ● = Reference number; for descriptions and options see ELECTRICAL EQUIPMENT page 80 - √ standard - \*\* = Other configurations and detailed specifications are available on [www.pramac.com](http://www.pramac.com)



# ELECTRICAL EQUIPMENT

## GSW SERIES 815-4000

CONTROL PANELS Type	ACP <sup>13</sup> Automatic Control Panel	MPP <sup>14</sup> Modular Parallel Panel
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Control panels with controls, instrumentations and protections to meet multiple applications. Designed for dedicated metallic box assembled and integrated into the generator.



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	√	√
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	√	√
HOURS-COUNTER	√	√
FUEL LEVEL	√	√
OIL PRESSURE	√	√
ENGINE TEMPERATURE	√	√
GENERATING SET POWER	kVA - kW - kVA <sub>r</sub> - Cos Φ	kVA - kW - kVA <sub>r</sub> - Cos Φ
BATTERY VOLTAGE	√	√
MAINS VOLTAGE	√	√
ENGINE SPEED R.P.M.	√	√
PROTECTIONS		
LOW FUEL LEVEL	√	√
LOW OIL PRESSURE	√	√
HIGH ENGINE TEMPERATURE	√	√
BATTERY CHARGER FAILURE	√	√
UNDER/OVER VOLTAGE	√	√
UNDER/OVER FREQUENCY	√	√
REVERSE POWER	√	√
OUTPUT**		
TERMINALS CONNECTION FOR LTS PANEL	√	-
PREDISPOSED FOR REMOTE CONTROL RCG	√	√
RS232 COMMUNICATION PORT	√	√
MULTI-PIN CONNECTORS FOR PARALLEL GE	-	√
RSS - REMOTE START & STOP	√	√

**BASIC CONFIGURATIONS AVAILABLE\*\*:**

POWER PANEL PROTECTION WITH CIRCUIT BREAKER ASSEMBLED IN A DEDICATED METALLIC CABINET



GENSET CIRCUIT BREAKER 3-POLE	S (GCB1)	S (GMB1 - motorized circuit breaker as generator protection/synchronization)
GENSET CIRCUIT BREAKER 4-POLE	S (GCB2)	S (GMB2 - motorized circuit breaker as generator protection/synchronization)
ETB- EXTERNAL TERMINAL BOARD	√ (with GCB)	√ (with GMB)
OPTIONALS **		
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 815-4000

### 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



#### AFP - AUTOMATIC FUEL PUMP

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



#### 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



#### PHS - COOLANT PREHEATING SYSTEM

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



#### IFT - INTEGRATED FUEL TANK

Integrated fuel tank installed and connected to the engine.  
Standard Capacity available:  
IFT1 500 Liters  
IFT2 1000 Liters



#### EXHAUST SYSTEM

The open version can be equipped with Industrial or Residential silencer



#### 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)