



REF. GDS **27.00**

## MODEL | GPW630 - 1030


- CUMMINS Diesel engine.
- Water cooling system.
- AIR-TO-AIR Intercooler.
- AIR-TO-WATER Intercooler.
- Industrial mufflers with flexible compensators.
- Manual pump oil draining pipe.




MODEL		GPW630	GPW810	GPW940	GPW1030
CODE					
PRIME POWER PRP	kVA (kW)	634 (507)	811 (649)	937 (750)	1.031 (825)
STANDBY POWER LTP	kVA (kW)	670 (536)	874 (699)	1.016 (813)	1.139 (911)
Voltage	V	III 400/231	III 400/231	III 400/231	III 400/231
Frequency	Hz	50	50	50	50
Power factor	cos φ	0,8	0,8	0,8	0,8
Fuel capacity	Litres	120	120	120	120
Autonomy (100% load PRP)	h	0,72	0,62	0,54	0,50
Dimensions (LxWxH)	mm	3.650 x 1.500 x 2.300	4.450 x 2.250 x 2.300	4.300 x 2.000 x 2.450	4.300 x 2.000 x 2.450
Weight	kg	6.388	6.901	7.952	8.106
<b>DIESEL ENGINE</b>	<b>CUMMINS</b>	<b>VT428 G5</b>	<b>QSK23 G3</b>	<b>QST30 G3</b>	<b>QST30 G4</b>
Cooling system	Type	Water	Water	Water	Water
Speed	r.p.m.	1.500	1.500	1.500	1.500
Displacement	c.c.	28.000	23.150	30.480	30.480
Cylinders and disposition	n° disp.	12 V	6 L	12 V	12 V
Aspiration	Type	Turbocharged with CWC	Turbocharged with CAC	Turbocharged with CWC	Turbocharged with CWC
Net engine power PRP (with fan)	kWm	538	682	786	861
Net engine power LTP (with fan)	kWm	590	747	875	951
Fuel consumption (100% load)	l/h	140	161	184	202
Engine governor (standard)	Type	Electronic	Electronic	Electronic	Electronic
<b>ALTERNATOR</b>	<b>MECC ALTE</b>	<b>ECO 40 1,5L</b>	<b>ECO 43 1S</b>	<b>ECO 43 1S</b>	<b>ECO 43 1L</b>
Insulation	Class	H	H	H	H
Mechanical degree of protection	Type	IP 21	IP 21	IP 21	IP 21
Voltage regulation	Type	Electronic	Electronic	Electronic	Electronic
Sustained short circuit current	Icc / Time	3 x In / 20 sec.	3 x In / 20 sec.	3 x In / 20 sec.	3 x In / 20 sec.

TECHNICAL FEATURES

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

AUTOMATIC/MANUAL CONTROL PANEL (ACP)		GPW630	GPW810	GPW940	GPW1030
 <p>Automatic control panel mounted on the genset, complete with digital control unit <b>DST4601</b> for monitoring, control and protection of the generating set.</p>	<p><b>Digital instrumentation</b> through DST4601 control unit.</p> <ul style="list-style-type: none"> <li>• Generating set voltage (3 phases).</li> <li>• Mains voltage.</li> <li>• Generating set frequency.</li> <li>• Generating set current (3 phases).</li> <li>• Battery voltage.</li> <li>• Active power (kW).</li> <li>• Reactive power (kVA).</li> <li>• Apparent power (kVA).</li> <li>• Power factor (cos φ).</li> <li>• Start-counter.</li> <li>• Active energy counter (kWh) no fiscal.</li> <li>• Hours-counter.</li> <li>• Oil pressure (optional).</li> <li>• Engine coolant temperature (optional).</li> </ul>				
	<p><b>Commands and others</b></p> <ul style="list-style-type: none"> <li>• Key operated mode selector switch: Automatic starting - Manual starting - Program - OFF/RESET - Test.</li> <li>• Engine start push button.</li> <li>• Engine stop push button.</li> <li>• Emergency stop push button.</li> <li>• Acoustic alarm silencing push button.</li> <li>• UP/DOWN push button for display selection.</li> </ul>				
	<p><b>Auxiliary services</b></p> <ul style="list-style-type: none"> <li>• Automatic battery charger.</li> <li>• Engine coolant preheating system power supply (single phase) (optional).</li> <li>• Acoustic alarm.</li> <li>• Programmable periodic test.</li> <li>• Genset report.</li> </ul>				
	<p><b>Protections without shutdown</b></p> <p>Battery failure (maximum/minimum voltage), pre-alarm for low oil pressure (optional), pre-alarm for high engine coolant temperature (optional), generator overload (derived from external contact of MCB).</p>				
	<p><b>Protections with shutdown</b></p> <p>High engine coolant temperature, low oil pressure, overspeed (derived from generator frequency), engine over-crank, no fuel, emergency stop.</p>				
	<p><b>Alarms shown on display</b></p> <p>Generator overload (derived from external contact of MCB), running under conditions not reached, generator under voltage, generator over voltage, generator under frequency, generator over frequency, maximum power, power reverse, closing of Mains contactor or genset contactor failed, stop failure.</p>				
<p><b>Automatic control panel mounted on the genset</b></p>					

AUTOMATIC/MANUAL CONTROL PANEL (ACP)

MAIN CIRCUIT BREAKER PANEL		GPW630	GPW810	GPW940	GPW1030	
MAIN CIRCUIT BREAKER PANEL		Nominal current (In)	1000A	1250A	1600A	1600A
	Main features	<ul style="list-style-type: none"> <li>• Number of poles: III poles.</li> <li>• Type of construction: fix moulded case.</li> <li>• Operating type: automatic.</li> <li>• Use category (EN60947-2): Curve B.</li> <li>• Current transformers and tripping coil.</li> <li>• Electronic protection by interchangeable relays for maximum current against overloads and short-circuits for alternate current.</li> <li>• Rated service voltage (Ue) 50/60Hz: 690V.</li> </ul>				
		Main circuit breaker mounted on the genset. It protects the generator against overloads (thermal section) and short circuits (magnetic section).				



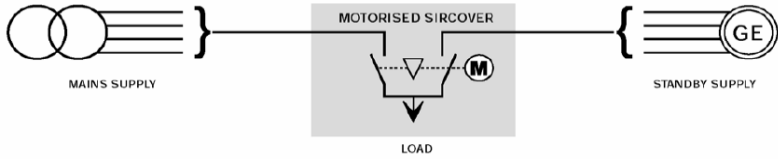
**GENSET SUPPLEMENTS (ONLY AVAILABLE WHEN ORDERED)**

GS	<input checked="" type="checkbox"/> EFO: EXTENDED CAPACITY ON BASE FUEL TANK.
	<input checked="" type="checkbox"/> DPP: DIFFERENTIAL PROTECTION.
	<input checked="" type="checkbox"/> AFP: AUTOMATIC REFUELING SYSTEM.
	<input checked="" type="checkbox"/> RES: RESIDENTIAL SILENCER.
	<input checked="" type="checkbox"/> PHS: COOLANT PREHEATING SYSTEM. It is absolutely necessary for starting under ambient conditions < +10°C.

**CONTROL PANEL SUPPLEMENTS (ONLY AVAILABLE WHEN ORDERED)**

CPS	<input checked="" type="checkbox"/> TIF: IV POLES CIRCUIT BREAKER INSTEAD OF III POLES.
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**ACCESSORIES**

LOAD TRANSFER SWITCH PANEL		GPW630	GPW810	GPW975	GPW1020
ACCESSORIES		Motorized change over contactors	IV poles - 1250A	IV poles - 1600A	
		Commands	<ul style="list-style-type: none"> <li>• Motorized change over switchgear integrated into the same device.</li> <li>• 3 positions selector switch, placed on the front of the panel, which allows selecting manually the following positions:                             <ul style="list-style-type: none"> <li>⇒ AUTO: Operating mode based on the automatic logic control DST4601.</li> <li>⇒ MAINS: Mains power supply forcement.</li> <li>⇒ GENSET: Genset power supply forcement.</li> </ul> </li> <li>• Manual pulley, placed on the own change over contactors, for emergency load transfer.</li> </ul>		
		Connections	<ul style="list-style-type: none"> <li>• Plinth row for connection from MCB (main circuit breaker) to LTS panel.</li> <li>• Terminals board for power cables connection (GENSET - MAINS - LOAD).</li> </ul>		
		Protections	<ul style="list-style-type: none"> <li>• Mechanically and electrically interlocked.</li> <li>• 2 visual LED's to show the contactors position: MAINS - GENSET.</li> <li>• Mechanical degree of protection: IP40 (external) and IP20 (internal).</li> </ul>		
		<p>Automatic control panel + LTS panel measures the Mains voltage and starts automatically the genset within few seconds to supply load in case of Mains failure. It transfers immediately the load back to the Mains when its voltage returns within the rated values.</p> 			
	<p>Load transfer switch panel built in a metal cabinet and supplied loose from the genset.</p>				