



REF. GDS 22.00

MODEL | GPW655 - 1850


- PERKINS Diesel engine.
- Water cooling system.
- AIR-TO-AIR Intercooler (engine Series TAG).
- AIR-TO-WATER Intercooler (engine Series TWG).
- Sound pressure level 70dB(A) at 7m.
- Residential muffler.
- Manual oil draining pump with pipe.
- Up to GPW1250: Canopy fixed on baseframe / From GPW1320: Canopy for fixation on the floor
(it can not be moved together with the genset)



MODEL		GPW655	GPW740	GPW800	GPW975	GPW1020	GPW1250	GPW1320	GPW1500	GPW1700	GPW1850	
TECHNICAL FEATURES	PRIME POWER PRP	639 (511)	700 (560)	807 (646)	975 (780)	1.031 (825)	1.253 (1.002)	1.358 (1.086)	1.499 (1.199)	1.707 (1.366)	1.852 (1.482)	
	STANDBY POWER LTP	670 (536)	735 (588)	874 (699)	1016 (813)	1.134 (907)	1.385 (1.108)	1.420 (1.136)	1.649 (1.319)	1.770 (1.416)	1.944 (1.555)	
	Voltage	III 400/231	III 400/231	III 400/231	III 400/231	III 400/231	III 400/231	III 400/231	III 400/231	III 400/231	III 400/231	
	Frequency	50	50	50	50	50	50	50	50	50	50	
	Power factor	Cos φ	0,8	0,8	0,8	0,8	0,8	0,8	0,8	0,8	0,8	
	Fuel capacity	Litres	120	120	120	120	120	120	120	120	120	
	Autonomy (100% load PRP)	h	0,82	0,69	0,63	0,50	0,48	0,41	0,35	0,35	0,29	
	Acoustic pressure at 7 m (+/-3 dBA)	dB(A)	70	70	70	70	70	70	70	70	70	
	Dimensions (LxWxH)	mm	5.075x1.870x2.620	6.550x2.000x3.450	6.550x2.000x3.450	7.260x2.100x3.500	7.160x2.100x3.500	7.410x2.100x3.700	7.410x2.500x4.050	7.410x2.500x4.050	7.980x2.400x3.800	8.970x3.000x3.820
	Weight	kg	6.410	8.456	8.456	9.873	10.105	12.150	13.260	13.558	16.450	17.750
	DIESEL ENGINE	PERKINS	2806C-E18TAG2	4006C-23 TAG2A	4006-23 TAG3A	4008 TAG2A	4008 TAG2A	4012 TWG2	4012-46 TWG3A	4012 TAG2A	4012-46 TAG3A	4016 TAG1A
	Cooling system	Type	Water	Water	Water	Water	Water	Water	Water	Water	Water	Water
	Speed	r.p.m.	1.500	1.500	1.500	1.500	1.500	1.500	1.500	1.500	1.500	1.500
	Displacement	c.c.	18.100	22.921	22.921	30.561	30.561	45.842	45.842	45.842	45.842	61.123
	Cylinders and disposition	n° disp.	6 L	6 L	6 L	8 L	8 L	12 V	12 V	12 V	12 V	16 V
	Aspiration	Type	Turbocharged with CAC	Turbocharged with CAC	Turbocharged with CAC	Turbocharged with CAC	Turbocharged with CAC	Turbocharged with CWC	Turbocharged with CWC	Turbocharged with CAC	Turbocharged with CAC	Turbocharged with CAC
	Net engine power PRP (with fan)	kWm	542	620	679	861	861	1.044	1.149	1.254	1.421	1.537
	Net engine power LTP (with fan)	kWm	599	685	760	947	947	1.154	1.263	1.380	1.563	1.690
Fuel consumption (100% load)	l/h	128	151	166	211	219	255	285	300	353	375	
Engine governor (standard)	Type	Electronic	Electronic	Electronic	Electronic	Electronic	Electronic	Electronic	Electronic	Electronic	Electronic	
ALTERNATOR	STAMFORD / MECC-ALTE	ECO 40 1,5L	ECO 40 2L	ECO 43 1S	ECO 43 2S	ECO 43 1L	ECO 43 2L	ECO 43 2L	PI 734 C	PI 734 D	ECO 46 2S	
Insulation	Class	H	H	H	H	H	H	H	H	H	H	
Mechanical degree of protection	Type	IP 21	IP 21	IP 21	IP 21	IP 21	IP 21	IP 21	IP 21	IP 21	IP 21	
Voltage regulation	Type	Electronic	Electronic	Electronic	Electronic	Electronic	Electronic	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.	3 x In / 20 sec.	3 x In / 20 sec.	3 x In / 20 sec.	3 x In / 10 sec.	3 x In / 10 sec.	3 x In / 20 sec.	

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

AUTOMATIC/MANUAL CONTROL PANEL (ACP)		GPW655	GPW740	GPW800	GPW975	GPW1020	GPW1250	GPW1320	GPW1500	GPW1700	GPW1850	
AUTOMATIC/MANUAL CONTROL PANEL (ACP)	DST4400	<ul style="list-style-type: none"> • Generating set voltage (3 phases). • Mains voltage. • Generating set frequency. • Generating set current (3 phases). • Battery voltage. • Active power (kW). • Reactive power (kVAr). • Apparent power (kVA). • Power factor (cos φ). • Start-counter. • Active energy counter (kWh) no fiscal. • Hours-counter. • Oil pressure (optional). • Engine coolant temperature (optional). 										
	DST4601	<ul style="list-style-type: none"> • Key operated mode selector switch: Automatic starting - Manual starting - Program - OFF/RESET - Test. • Engine start push button. • Engine stop push button. • Emergency stop push button. • Acoustic alarm silencing push button. • UP/DOWN push button for display selection. 										
	Automatic control panel mounted on the genset, complete with digital control unit for control and protection of the generating set.	Auxiliary services	<ul style="list-style-type: none"> • Automatic battery charger. • Engine coolant preheating system power supply (single phase). • Acoustic alarm. • Programmable periodic test. • Genset report. 									
		Protections without shutdown	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).									
		Protections with shutdown	High engine coolant temperature, low oil pressure, overspeed (derived from generator frequency), engine over-crank, no fuel, emergency stop.									
	Alarms shown on display	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.										
	Automatic control panel mounted on the genset							Automatic control and Main circuit breaker realized in a single panel separated from genset.				

MAIN CIRCUIT BREAKER PANEL		GPW655	GPW740	GPW800	GPW975	GPW1020	GPW1250	GPW1320	GPW1500	GPW1700	GPW1850	
MAIN CIRCUIT BREAKER PANEL		Nominal current (In)	1000A	1250A	1250A	1600A	1600A	2000A	2000A	2500A	2500A	3200A
	Main features	<ul style="list-style-type: none"> • Number of poles: III poles. • Type of construction: fix moulded case. • Operating type: automatic. • Use category (EN60947-2): Curve B. • Current transformers and tripping coil. • Electronic protection by interchangeable relays for maximum current against overloads and short-circuits for alternate current. • Rated service voltage (Ue) 50/60Hz: 690V. 										
Main circuit breaker mounted on the genset. It protects the generator against overloads (thermal section) and short circuits (magnetic section).								Automatic control and Main circuit breaker realized in a single panel separated from genset. It protects the generator against overloads (thermal section) and short circuits (magnetic section).				



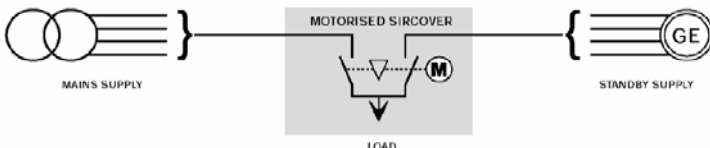
GENSET SUPPLEMENTS (ONLY AVAILABLE WHEN ORDERED)

GS	• EFO: EXTENDED CAPACITY ON BASE FUEL TANK.
	• DPP: DIFFERENTIAL PROTECTION.
	• AFP: AUTOMATIC REFUELING SYSTEM.
	• PHS: COOLANT PREHEATING SYSTEM. It is absolutely necessary for starting under ambient conditions < +10°C.

CONTROL PANEL SUPPLEMENTS (ONLY AVAILABLE WHEN ORDERED)

CPS	• TIF: IV POLES CIRCUIT BREAKER INSTEAD OF III POLES.
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ACCESSORIES

LOAD TRANSFER SWITCH PANEL		GPW655	GPW740	GPW800	GPW975	GPW1020	GPW1250	GPW1320	GPW1500	GPW1700	GPW1850	
ACCESSORIES		Motorized change over contactors	IV poles - 1250A		IV poles - 1600A		IV poles - 2000A		IV poles - 2500A		IV poles - 3200A	
		Commands	<ul style="list-style-type: none"> • Motorized change over switchgear integrated into the same device. • 3 positions selector switch, placed on the front of the panel, which allows selecting manually the following positions: <ul style="list-style-type: none"> ⇒ AUTO: Operating mode based on the automatic logic control. ⇒ MAINS: Mains power supply forcement. ⇒ GENSET: Genset power supply forcement. • Manual pulley, placed on the own change over contactors, for emergency load transfer. 									
		Connections	<ul style="list-style-type: none"> • Plinth row for connection from MCB (main circuit breaker) to LTS panel. • Terminals board for power cables connection (GENSET - MAINS - LOAD). 									
		Protections	<ul style="list-style-type: none"> • Mechanically and electrically interlocked. • 2 visual LED's to show the contactors position: MAINS - GENSET. • Mechanical degree of protection: IP40 (external) and IP20 (internal). 									
		<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> <div style="text-align: center;">  <p>The diagram shows a schematic of the load transfer switch panel. On the left, there are three circles representing the 'MAINS SUPPLY'. A line connects this to a central box labeled 'MOTORISED SIRCOVER' which contains a switch symbol and a motor symbol 'M'. Below this switch is the label 'LOAD'. On the right, there are three circles representing the 'STANDBY SUPPLY' with a 'GE' logo inside one of them.</p> </div>										
	<p>Load transfer switch panel built in a metal cabinet and supplied loose from the genset.</p>											