



GRAMEEN PHONE PROJECT

MODEL | **GBW30**



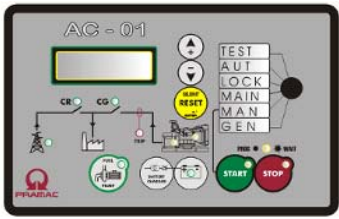

- **PERKINS Diesel engine.**
- **STAMFORD synchronous alternator.**
- **Water cooling system.**
- **AC-01 digital control unit on AMF panel.**
- **Industrial exhaust silencer.**
- **Lifting point.**
- **Fuel tank of 100 lt. (whole capacity).**
- **Complete with engine and battery liquids.**



MODEL		GBW30	
CODE		SH260TPAW06	
PRIME POWER PRP	kVA (kW)	29,0 (23,6)	
EMERGENCY POWER LTP	kVA (kW)	30,0 (24,0)	
Voltage	VAC	400/231 Three phases	
Frequency	Hz	50	
Power factor	Cos φ	0,8	
Load acceptance (ISO 8528-5)	%	90	
Tank capacity	Litres	100	
Autonomy (100% load PRP)	h	14,1	
Dimensions (LxWxH)	mm	2.000 x 920 x 1.100	
Weight	kg	777	
DIESEL ENGINE	PERKINS	1103A-33G	
Power (net) - PRP	kWm	27,7	
Power (net) - LTP	kWm	30,4	
Cooling system	Type	Water	
Speed	r.p.m.	1.500	
Transient frequency deviation	%	< -10	
Displacement	c.c.	3.300	
Cylinders and disposition	n° disp.	3 Line	
Aspiration	Type	Natural	
Fuel consumption (100% load)	l/h	7,1	
Specific consumption PRP	g/kWh	211	
Combustion air flow	m ³ /min	2,16	
Cooling fan air flow	m ³ /min	53,00	
Exhasut gases flow	m ³ /min	5,70	
Electrical circuit	VDC	12	
Engine governor (standard)	Type	Mechanical	
ALTERNATOR	STAMFORD	BCI 184 F	
Cont. Power 125/40°C - COP	kVA	27,5	
Standby Power 150/40°C - PRP	kVA	29,0	
Standby Power 163/27°C - LTP	kVA	30,0	
Efficiency at 4/4 (100% Load)	%	85,3	
Insulation	Class	H	
IP degree of protection	Type	IP23	
Voltage regulation	Type	Electronic with SX460 A.V.R. model	
Steady-state stability	%	± 1,5	
Alternator derating	%	3 (every 500m above 1.000m a.s.l.) / 3 (every 5°C above 40°C)	

TECHNICAL FEATURES

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

AUTOMATIC CONTROL PANEL (AMF)		GBW30
  <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>	<p>Digital Instrumentation</p>	Generating set voltage (3 phases).
		Mains voltage.
		Generating set frequency.
		Generating set current (3 phases).
		Battery voltage.
		Power (kVA-kW-kVAr).
		Power factor.
		Hours-counter.
		Engine speed (r.p.m.).
		Fuel level (%).
	Engine temperature.	
	<p>Commands</p>	Frontal selector switch with 6 different positions (Automatic test - Automatic starting - Engine locked - Mains contactor forced - Manual starting - Genset contactor forced).
		Push-buttons: start/stop, up-down, rest.
		Remote starting availability.
		Acoustic alarm.
<p>Load transfer switch</p>	IV poles Mains/Genset change over contactors mounted inside the panel.	
	Electric and mechanic interlock.	
<p>Protections with alarm</p>	Engine protections: low oil pressure, high engine temperature, low fuel level.	
	Generating set protections: under/over voltage, overload, under/over frequency, starting failure, under/over battery voltage, battery charger failure.	
<p>Protections with shut down</p>	Engine protections: low fuel level, low oil pressure, high engine temperature.	
	Generating set protections: under/over voltage, overload, under/over battery voltage, battery charger failure.	
<p>Circuit breaker</p>	IV poles 50A circuit breaker as protection against overloads and short circuits.	
<p>Output & Connections</p>	Plinth row for easy and quick connection to the pre-wired panel mounted on the genset.	
	Control cables: 5 meters supplied.	
	Power cables connection to terminals board (internal).	
	Power cables: 5 meters supplied.	
<p>The automatic control panel measures the Mains and starts automatically the Generating set within few seconds in case of Mains failure. It transfers immediately the load again to the Generating set when the Mains voltage returns within the rated values.</p>		