



JABBOUR POWER SARL



جـبـور بـاور ش.م.م.

Electric Packaged Generatorsets – Perkins Powered

Bernini-Design



BE24



BE22



BE2000

Digital Controllers

Huegli Tech AG, Switzerland



Electric packaged generator set with BE24 panel

ComAp



IntelLite



InteliGen



InteliSys

LCD Controllers

Huegli Tech AG, Switzerland

Watercooled, 400V-0.8PF-3ph 50Hz 1500rpm/ 440V-0.8PF-3ph 60Hz 1800rpm

Model	Type	KVA(50Hz)		KVA(60Hz)		Fuel Cons. l/hr(av.50Hz)	Set Dimensions			
		Prime	Stdby	Prime	Stdby		L(cm)	W(cm)	H(cm)	Weight(kg)
JP10	403C-11G	9	10	11	12	2.2	143	69	96	314
JP15	403C-15G	13.5	14.5	16.1	17.5	3.2	154	69	96	402
JP22	404C-22G	20.3	22.7	23	26.1	4.5	165	69	99	485
JP34	1103A-33G	30.8	33.7	36.2	39.7	5.95	160	76	116	772
JP50	1103A-33TG1	45	49.6	53.9	59.4	8.99	190	76	116	841
JP66	1103A-33TG2	60	66	68.7	75.4	11.65	190	76	116	882
JP90	1104C-44TAG1	78.7	90.9	85.1	100	12.20	190	76	130	960
JP100	1006TG1A	93	103	11.5	122.5	18.30	240	75	130	1150
JP110	1104C-44TAG2	100	114	110	128	20.40	240	76	140	1220
JP150	1006TAG	136	150	162.5	179	26.46	250	76	140	1250
JP175	1006TAG2	150	175	NA	NA	27.75	260	76	140	1400
JP180	1306-E87TG2	163	178	NA	NA	32.5	270	100	172	2000
JP230	1306C-E87TAG3	208	229	232.9	254.1	34.9	270	100	172	210
JP275	1306C-E87TAG6	250	275	NA	NA	42	270	100	172	2200
JP350	2306C-E14TAG1	300	350	350	408	46.6	330	101	185	2900
JP400	2306C-E14TAG2	354.5	400	409.3	440.8	52.5	330	101	185	3150
JP450	2306C-E14TAG3	404.6	450	442.3	504.2	60.9	330	101	185	3280
JP500	2506A-E15TAG1	455	500	563	625	72	375	120	215	375
JP550	2506A-E15TAG2	500	550	625	687	76	375	120	215	3760
JP650	2506C-E18TAG1	561.1	651.8	636.1	697.3	81	394	155	220	4760
JP700	2806C-E18TAG2	636.1	701.5	632.8	693.6	92	394	155	212	4840
JP800	4006C-23TAG2A	730	800	750	844	121	4250	192	229	6100
JP900	4006C-23TAG3A	800	900	844	938	130	425	192	229	6300
JP1125	4008TAG2(A)	1022	1125	995	1098	189.84	490	200	226	7510
JP1375	4012TWG2	1250	1375	1250	1375	223	494	200	230	9000
JP1650	4012TAG2(A)	1508	1658	1512	1663	257	520	220	230	10300
JP2270	4016TAG2	2058	2264	NA	NA	366	600	232	320	15100

SPECIFICATION OF STANDARD FEATURES OF GENERATORSETS

1. OUTPUT RATINGS

Output ratings are listed in the above table. The genset is normally supplied connected for 380/415V, 3 Phase, 50Hz, 0.8PF, but alternative voltages/frequencies are available at request.

2. ENGINES

Perkins, water-cooled, 4 stroke, diesel engine.

Governor

Mechanical, compliant with BS5514, or Electronic depending on engine type and model.

Electrical System

12 Volt up to P140, 24 Volt on all larger models. Oil pressure and water temperature switches are included.

Cooling Radiator

Tropical capacity radiator with engine driven fan complete with protection guards, designed to cool engine at specified output in ambient temperatures up to 52°C.

Engine Filtration System

Heavy duty dry type air filters (suitable for use in dusty conditions), fuel and lubricating oil filters with replaceable elements.

Exhaust System

Heavy duty industrial silencer (Supplied loose).

Electric System

12/24 volt system with battery charging alternator and starter motor. High capacity maintenance free lead acid starting batteries, battery rack mounted on base frame, and heavy duty interconnecting cables with terminations.

3. ALTERNATOR

Screen protected and drip-proof, self exciting, self regulating brushless alternator with fully interconnected damper windings and sealed for-life bearings.

Insulation System

Class H insulation. All windings are impregnated in either a triple dip thermo-setting moisture, oil and acid resisting polyester varnish or vacuum pressure impregnated with a special polyester resin. Heavy coat of anti-tracking varnish for additional protection against moisture or condensation.

Electrical Characteristics

Electrical design in accordance with BS5000 part99, IEC34-1, VDE030, UTE51100, NEMANG-122

Automatic Voltage Regulator

The sealed automatic voltage regulator maintains the voltage within the limits of +/-1% from no load to full load including cold to hot variations at any power factor between 0.8 lagging and unity. Normal adjustment is by means of a trimmer incorporated in the AVR.

Waveform Distortion, THF and

TIF Factors

The total distortion of the voltage waveform with open circuit between phases or phase and neutral is in the order of 2. On a 3 phase balanced harmonic-free load the total distortion is in the order of 3.5%. Machines are designed to have a THF better than 2% and a TIF better than 50. A 2/3 pitch factor is standard on all stator windings.

Radio Interference

Suppression is in line with the provisions of BS800 and VDE Class G and N

Motor Starting

An overload capacity equivalent to between 160% and 300% (depending on alternator frame size) of full load impedance at zero power factor can be sustained for 10 seconds.

4. MOUNTING ARRANGEMENT-SAFETY FEATURES

Baseframe

The complete genset is mounted, as a whole, on a heavy duty fabricated and welded steel baseframe, with specially designed crane lifting devices.

Coupling

The engine and alternator are directly coupled by means of an SAE flange so that there is no possibility of misalignment after prolonged use. The engine flywheel is flexibly coupled to the alternator rotor and a full torsional analysis has been carried out to guarantee no harmful vibration will occur in the assembly.

Anti-vibration Mountings

Anti -vibration pads are affixed between the engine /alternator feet and the baseframe.

NB: On some models, the anti-vibration mounts are supplied loose for installation between the baseframe and mounting surface

Safety Guards

The fan, fan drive and battery charging alternator drive are fully guarded for personal protection.

5. FUEL SYSTEM

On major sets, the base frame includes a daily fuel tank (8 hrs approx.). The tank is supplied complete with contents indicator, fuel fill cap, breather fuel feed and return lines to engine and drain plug.

6. CONTROL SYSTEM

Keystart control Panel

Set mounted keystart panel equipped with:

a. Instruments

Voltmeter

Ammeter

Frequency Meter

Hours Run Meter

Coolant Temperature Gauge

Oil Pressure Gauge

Battery Charger Ammeter

b. Controls

Start/Stop Keyswitch

Voltmeter Phase Sel Switch, 7pos

Ammeter Phase Sel Switch, 4 pos

c. Shutdown Protection Devices

With Indicators for:

High Coolant Temperature

Low Oil Pressure

Circuit Breaker

3 pole miniature or molded case circuit breaker will be mounted on the set in a separate isolated sheet steel box with adequate access for incoming and outgoing cables.

7. DOCUMENTATION

Standard engine and alternator user's manual.

8. FACTORY TESTS

The generator set is tested before dispatch.

9. EQUIPMENT FINISH

Each part of the set is painted with anti-rust coat and finished with high gloss polyurethane paint.