

POWERTECH GENERATORS 30KW-200KW SPECIFICATIONS

General data	1 Phase		3 Phases	
Power Factor	1		0,8	
Phases	1 Phase		3 Phases	
Voltage	240V		208V	
Frequency	60 Hz, 1800 RPM			
Cabinet	Soundproofed and weathered			
Noise Level	70dB a 7m			
Motor				
Brand	Perkins			
Aspiration	Turbocharged			
Cooling	Coolant, pumps, radiator, and ventilator			
Booting System	24V electric, start up motor, charging alternator			
Fuel System	Electronic control injection, direct injection, individual injectors for each piston. Replaceable filter element			
Lubrication System	Gear driven oil pump. Replaceable filter element.			
Speed Governing	Electronic, 1%			
Protection System	Automatic stop for high water temperature, low oil pressure, and over speeding.			
Generator				
Brand	Stamford			
Rotor / Stator Insulation	Class H			
Bearings	01 sealed and pre-lubricated with long lifetime			
Protection	IP 23, water-splash proof			
Excitation	Static type, brushless, self-excited, self-regulated (with PMG optional)		Static type, brushless, self-excited, self-regulated with PMG	
Voltage Regulation	Electronic AVR R448 card, $\pm 2\%$ between empty and full load, protective resin against vibrations			
Base and Assembly				
Frame	Skate type structural steel and cabinet filled with special foam to reduce noise 70 dB at 7m			
Coupling	Direct motor / flexible metal disks generator			
Support	Resilient anti-vibration between the motor-generator and frame set			
Silencer	Industrial			
Battery	12VDC, includes support and connection cables			
Protection and Control Board				
Metallic Cabinet	Control and strength compartments, mounted on the generator with resilience			
Control and Management System	DEEP SEA 7420 electronic module, monitoring, protection, high capacity for self-diagnosis of failures, LCD screen for digital readings of measurement parameters. Allows for booting and stopping in manual or automatic mode			
Protection System	Stop and failure alarms due to: low oil pressure, high water temperature, alternator charge, over/under booting speed. Emergency stop button, includes three starting attempts			
Measurement System	Alphanumeric type digital readout of: voltage between phases, voltage between phases and neutral voltage, current between phases, frequency, RPM rotational speed, oil pressure, water temperature, operating hours			
Thermomagnetic Circuit Breaker	Single phase with overload and short circuit shutdown		Three phase, with overload and short circuit shutdown	



PERKINS ENGINE

Model	Standby Power		Prime Power		Engine	Alternator	
	kVA	kW	kVA	kW	Model	Manufacture	Model
LG11P	11	8,8	10	8	403D-11G	Stamford	PI044H
LG16P	16,3	13	15	12	403D-15G	Stamford	PI144E
LG25P	25	20	22,5	18	404D-22G	Stamford	PI144H
LG39P	38,8	31	35	28	1103A-33G	Stamford	UCI224D
LG45P	48	38,4	44	35,2	1103A-33TG1	Stamford	UCI224E
LG51P	55	44	50	40	1103A-33TG1	Stamford	UCI224F
LG74P	74	59,4	67,5	54	1103A-33TG2	Stamford	UCI274C

DSE7420 Controller

EBS (Excitation Boost System) FOR PI0 and PI1 alternator - Optional

MX321 AVR + PMG - OPTIONAL

