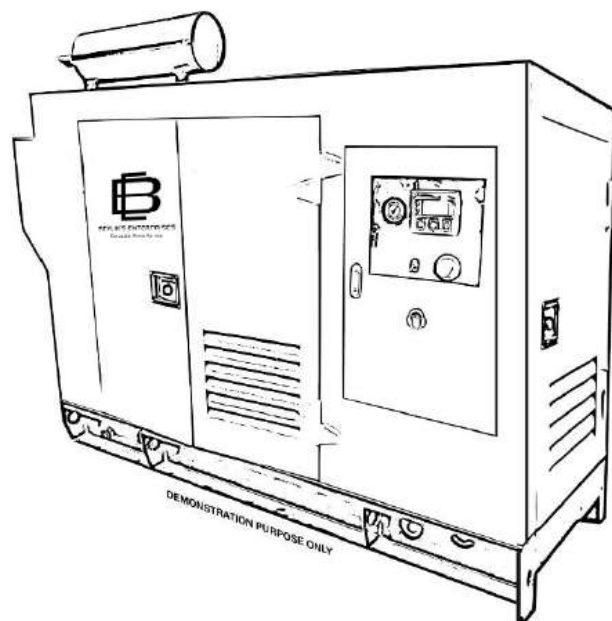
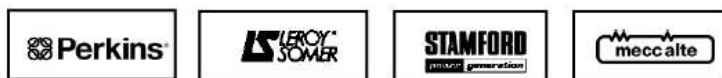


## KEY FEATURES:

- Generator made by OEM-Perkins
- Every generating set carries a comprehensive test program & report thereon
- Certifications**  
ISO 8528/1, ISO 3046/1:1986, BS5514/1, NEMA MG 1-22, NEMA MG 1.32-33, IEC 60034, BS 5000 PART 99, VDE 0530, ISO 8528/3, UL 1446, UL 1004, ISO 9001, ISO 14001, AS 1359, IEC 34
- Complete protection functions & safety labels
- Easy & Economical availability of Spares
- Advanced digital control system, long service life, easy to operate, low fuel consumption & anti-vibrating isolators
- After Sales support all over Pakistan
- High quality, reliable & complete generating set
- Easy for operation & maintenance



## POWERED BY:



## GENERATOR SET:

Generator Model	EPG66	
Prime Power	60-KVA	48-KW
Standby Power	66-KVA	52.8-KW
Configuration	380-415 V, 3Ph, 50 Hz, 1500 RPM at 0.8 PF	

## FUEL CONSUMPTION

Consumption @ 100% load	13.9 Ltrs
Consumption @ 75% load	10.4 Ltrs
Consumption @ 50% load	7.2 Ltrs

## DIMENSIONS, WEIGHT & FUEL TANK (Approx.)

Particulars	Open	Canopy-R	Canopy-S
Length (Inches)	73	72	79
Width (Inches)	29	40	39
Height (Inches)	53	45	46
Net Weight (Kg)	923	1378	1396
Fuel Tank (L)		117	102

## ALTERNATOR DATA:

Manufacturer	LEROY SOMER	STAMFORD	Equivalent
Model /Series	TAL Series	TBA	TBA
Frequency /Speed	50 Hz / 1500 RPM		
Coupling	Direct		
No. of Bearings	Single Bearing		
Phase / Poles	3-Phase/4-Pole		
Over speed	2250 mn <sup>-1</sup>		
AVR Model	R120		
Voltage Regulation	± 1%		
Insulation Class	H		
Ingress Protection	IP 23		
Excitation	Shunt		
Winding Pitch	2/3 (wdg 3)		

## CONTROLLER DATA:

Make	Deep Sea-UK
Model	DSE 4520

**ENGINE DATA:**

Manufacturer	Perkins
Model	1103-33TG2
Cylinders	3
Cylinders Arrangement	Vertical In-Line
Displacement	3.3 L
Aspiration System	Turbocharged
Combustion System	Direct Injection
Governor	Mechanical
Bore	105 mm
Stroke	127 mm
Speed	50 Hz & 1500 RPM
Cooling System	Water Cooled
Cycle	4-Stroke
Gross Power PRP (KWm)	55-KWm /73-HP
Gross Power STP (KWm)	60.5-KWm /81-HP
Gross Power PRP	73 HP
Compression Ratio	17.25:1
Rotation	Anti-Clockwise
Lubricating Capacity	8.3 L
Coolant Capacity	10.2 L
Radiator Cooling air flow m <sup>3</sup> / s	1.48 Min
Thermostat Operation Range	82-93° C
Coolant & water Ratio	50:50
Exhaust Gas Temperature	557° C
Combustion Air flow m <sup>3</sup> / min	3.8
Exhaust Gas Flow m <sup>3</sup> / min	10.1
Allowable Back Pressure	10 kPa
Exhaust Outlet Size	56 mm
Battery Charging Alternator	65 Amps
Starter Motor	3 KW, 12V
Oil Pressure	415-470 kPa
Dry Weight (Kg)	420
Recommended Oil Grade	API-CH4-SAE15W-40
Battery Voltage	12 V
Fuel Type	Diesel
Recommended Fuel	Grade # 2

**OTHER INFORMATION:**

ATS /AMF Panel	Optional
External Fuel Tank	Optional
Trailer/Trolley	Optional
Remote Monitoring	Optional
Operating Temperature	Up to 50° C
Low Fuel Level Sensor	Available
4-Pole Breaker	Optional
Sound Level @ 7M	76 dBs (Approx.)
Synchronizing System	Optional
Customized Color	Optional
Customized Sound Level	Optional

**STANDARD SPECIFICATIONS:**

**1.ENGINE** Perkins 4 stroke heavy duty high performance industrial type diesel engine.

**2.ENGINE FILTRATION SYSTEM** • Air filter. • Fuel filter. • Full flow lube oil filter. All filters have replaceable elements.

**3.COOLING RADIATOR.** Radiator and cooling fan, complete with safety guards, designed to cool the engine at high ambient temperatures

**4.EXHAUST SYSTEM** Heavy duty Industrial Exhaust Silencer.

**5. CIRCUIT BREAKER TYPE** 3 pole MCB. (4 pole is optional)

**6. FUEL SYSTEM** On Generating Sets up to 500 KVA, the base frame design is incorporated with an integral fuel tank with capacity of approx. 5-8 hours running at Full Load. The tank is supplied complete with fill cap breather, fuel feed and return lines to the Engine and drain plug.

**7. ALTERNATOR 7.1 INSULATION SYSTEM** • The insulation system is Class H. • All windings are impregnated in either a triple dip thermosetting liquid, oil and acid resisting polyester varnish or vacuum pressure impregnated with a special polyester resin. • Heavy coat of anti-tracking varnish additional protection against moisture or condensation. **7.2 AUTOMATIC VOLTAGE REGULATOR (AVR)** The fully sealed Automatic Voltage Regulator maintains the Voltage Regulation at ±0.5%. Nominal adjustment by means of a trim pot incorporated on the AVR.

**8. MOUNTING ARRANGEMENT 8.1 BASE FRAME** The complete Generating Set is mounted as a whole on a heavy duty fabricated steel Base frame. **8.2 COUPLING** The Engine and Alternator are directly coupled by means of an SAE flange. The Engine flywheel is flexibly coupled to the Alternator rotor. **8.3 ANTI-VIBRATION MOUNTING PADS** Anti-Vibration pads are affixed between the Engine / Alternator feet and the Base frame thus ensuring complete vibration isolation of the rotating assembly. **8.4 SAFETY GUARDS** The Fan & Fan Drive along with the Battery Charging Alternator are Safety Guard protected for personnel protection.

**9. FACTORY TESTS** • The Generating set is load tested before dispatch • All protective devices control functions and site load conditions are simulated. The generator and it's systems are checked before dispatch.

**10. DOCUMENTATIONS** Operation & Maintenance manual, Circuit wiring diagrams and Commissioning / Fault Finding instruction leaflets are accompanied with the Generator.

**11. WARRANTY** All of the Generating Sets are covered under a warranty policy for a period of 12 months or 1000 Hours Warranty of the equipment is in line with manufacturers warranty terms & conditions. (check warranty statement for more details, as it may vary for different countries)

**Disclaimer:** In-line with continuous product development, we reserve the right to change specifications without prior notice.



CONTROLLER LCD DISPLAY:	Deep Sea DSE 4520	Deep Sea DSE 6020
Voltage between Phases (L-L)	✓	✓
Voltage between Neutral and Phase (L-N)	✓	✓
Frequency	✓	✓
3 Phase Current	✓	✓
Real Power (KW) and Apparent Power (KVA)	✓	✓
Power Factor	✓	✓
Engine Speed	✓	✓
Running Hours	✓	✓
Coolant Temperature	✓	✓
Oil Pressure	✓	✓
Battery Voltage	✓	✓
LCD Alarm Indication	✓	✓
3 Phase Mains (Utility) Sensing	✓	✓

### PROTECTING FUNCTIONS:

Emergency Stop Button	✓	✓
High coolant Temperature	✓	✓
Low Oil Pressure	✓	✓
Over Current / Load	✓	✓
Under/Over Speed, Frequency & Voltages	✓	✓
Low / High Battery Voltages	✓	✓
Low Fuel Level Warning at 20%	✓	✓
Low Fuel Level Shutdown at 10%	✓	✓

### RATINGS DEFINITIONS:

**Prime Power:** These ratings are applicable for supplying continuous electrical power at variable load in lieu of commercially purchased power. 10% overload power is available for 1 hour in 12 hours continuous operation.

**Standby Power:** These ratings are applicable for supplying continuous electrical power at variable load in the event of a utility power failure. No overload is permitted.

### STANDARD REFERENCE CONDITIONS:

Output ratings are presented at 25° C air inlet temperature, barometric pressure 100 kPa relative humidity 30%. This rating set is designed to operate at high ambient temperature up to 50° C, humidity up to 99% and higher altitude. De-rating may apply. (Some of the specifications are not standard on all Genset models)

### OPTIONAL ITEMS



BEYLIK'S ENTERPRISES  
The quality Power For you

Plot 374, Sector 11-E, North Karachi  
Industrial Karachi, Pakistan.

