

Features

- High quality, reliable and complete generating sets.
- Every generating set carries a comprehensive test program which includes 25%, 50%, 75%, 100% , 110% loading test and series protecting function (example: Low oil pressure , High coolant temperature, over current/load etc.) check.
- Easy for operation and maintenance
- Compact structure & high-strength chassis.
- Base frame design incorporates an intergrade fuel tank for at least 8 hours running (up to 650KVA).
- The canopy body painting adopts the HenKel pretreatment process and the base frame painting adopts sandblasting +AkzoNobel powder, the paint warranty period can be 3 years.
- High-performance free-maintenance batteries with isolation switch.
- Anti- vibration pads are mounted between the engine/alternator feet and the base frame.
- Top lifting point and steel base frame with forklift holes, easy for transportation.
- Compliance with international electrical safety standards.
- Complete protection functions and safety labels.
- A large number of matching optional to meet the needs of various customers.



Photos are for reference only



ISO9001: 2015
Quality system certified



ISO14001
System certification



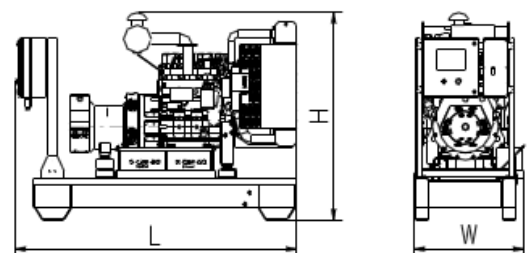
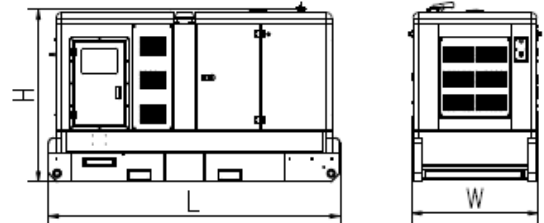
OHSAS18001
System certification



CE certificate

| Dimension, Weight, Fuel Tank Capacity | | |
|---------------------------------------|-----------|-----------|
| Generating set model | HPLS60S-1 | HPLS60S-1 |
| Length(L) (mm) | 2600 | 2050 |
| Width(W) (mm) | 1130 | 700 |
| Height(H) (mm) | 1540 | 1350 |
| Dry weight (kg) | 1450 | 1220 |
| Tank capacity(L) | 190 | 155 |
| The loading capacity (40'HC) | 8 Sets | 15 Sets |

This data sheet is for reference only, Please contact the salesman before ordering.



| Generating Set Technical Data | |
|---|--------------|
| Prime power(Output) | 60 kVA/48kW |
| Standby power(Output) | 66kVA/52.8kW |
| Rated frequency | 50 Hz |
| Rated speed | 1500 rpm |
| Rated voltage | 400 /230V |
| Phase | 3 |
| Power factor | 0.8 |
| Noise level @7m dB(A)(only for silent type) | 70 |
| Engine model | 1103A-33TG2 |
| Alternator model | TAL-A42-H |
| Fuel consumption of 75% load | 10.8Litres/h |
| Fuel consumption of 100% load | 14.6Litres/h |

Also available in the following voltages:

415/240V, 380/220V, 220/127V, 200/115V (According to customer requirements).

Rated Power/prime Power(PRP) :

Continuous running at variable load for unlimited periods with 10% overload available for 1 hour in any 12 hour period, in accordance with ISO8528.

Standby Power/Emergency Standby Power (ESP):

The maximum power available during a variable electrical power sequence, no overload on these ratings, in accordance with ISO 8528.

Engine Specifications

| | |
|-----------------------------------|----------------------------|
| Engine model & manufacturer | 1103A-33TG2(Perkins) |
| Emission Certification | --- |
| Number of cylinders | 3 |
| Cylinder arrangement | In-line |
| Cycle | Four stroke |
| Aspiration | Turbocharged |
| Bore x Stroke | 105 x 127 mm |
| Displacement | 3.3 Liter |
| Compression ration | 17.25:1 |
| Prime power/speed | 53.8 kW/1500 rpm |
| Standby power/speed | 59.3 kW/1500 rpm |
| Speed governor | Mechanical |
| Cooling system | Forced Water Cooling Cycle |
| Frequency droop | ≤5% |
| Total lubrication system capacity | 8.3 Liter |
| Coolant capacity (engine only) | 4.4 Liter |
| Fuel consumption | 100% load |
| | 225.6 g/kW.h (at 1500 rpm) |
| Starter motor | DC12V |
| Charge alternator | DC12V |

- Heavy duty Perkins diesel engine
- Four stroke, water cooled, naturally aspirated
- Direct injection fuel system
- Mechanical governor system
- 12V DC starter and charge alternator
- Replaceable fuel filter and dry element air filter
- Cooling radiator and fan
- Starter battery(with lead acid) including
- Flexible fuel connection hoses
- Industrial capacity exhaust silencer and steel bellows
- Operation manuals and circuit diagram documents

Alternator Specifications

| | |
|------------------------------|-------------------------|
| Alternator model | TAL-A42-H |
| Alternator manufacturer | LEROY SOMER |
| Rated frequency /Rated speed | 50 Hz /1500 rpm |
| Rated output prime power | 63KVA |
| Rated voltage | 400 V |
| Phase | 3 |
| Power factor | 0.8 |
| Efficiency (%) | 89.9% |
| Exciter type | Self excited, Brushless |
| Voltage adjust range | ≥5.0% |
| Voltage regulation | ≤±1.0% |
| Insulation grade | H |
| Protection grade | IP23 |

Alternator Optional

| | | | |
|---------------------------|--------------|--------------|--------------|
| Optional alternator brand | STAMFORD | Mecc alte | MPMC |
| Optional alternator model | S1L2-Y1 | ECP32 2M4B | LYG 224D |
| Exciter type | Self-excited | Self-excited | Self-excited |
| Rated output prime power | 62.5kVA | 63KVA | 60 kVA |



Control System

All Polkar generating sets have a control cabinet mounted on the gen-set base frame.

NANO3 (ComAp)



Suitable for ≤ 250kVA Gen-sets

DSE4520 (Deepsea)



Suitable for >250kVA Gen-sets

DSE7320 (Deepsea)



Suitable for all series Gen-sets

| The Controller LCD Display | NANO3 control system | DSE4520 control system | DSE7320 control system | Controller Optional |
|--|----------------------|------------------------|------------------------|---------------------|
| Voltage between phases(L-L) | √ | √ | √ | IL-NT-AMF25(ComAp) |
| Voltage between neutral and phase(L-N) | × | √ | √ | |
| Frequency | √ | √ | √ | IC-NT-MINT(ComAp) |
| 3 Phase current | √ | √ | √ | |
| Real power(kW) and apparent power(kVA) | √ | √ | √ | DSE8610(Deepsea) |
| Power factor | √ | √ | √ | |
| Engine speed | √ | √ | √ | HGM6120(SmartGen) |
| 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 & voltage | √ | √ | √ | |
| Low/High battery voltage | √ | √ | √ | |
| Low coolant level | Optional | Optional | Optional | |

Optional:

| Engine | Alternator | Fuel System | Generating Set |
|--|---|---|---|
| <ul style="list-style-type: none"> Water Jacket Preheater Oil Preheater Oil manual pump | <ul style="list-style-type: none"> PMG excitation Space heater Winding temperature measuring | <ul style="list-style-type: none"> 12 / 24 hour base tank Dual wall base fuel tank Outside fuel tank Automatic fuel feeding Switch between external tank and base tank (three-way valve) | <ul style="list-style-type: none"> Tools with the machine Trailer |

Generating Set Color:

| Parts | Standard Color | | Optional Color | |
|------------|--|-----------|---|-----------|
| | RAL # | Reference | RAL # | Reference |
| Base frame | Jet black : RAL9005 RGB : 003/005/010 | | Blue grey: RAL7031 RGB: 003/005/010 | |
| Canopy | Pure white: RAL9010 RGB : 250/255/255 | | Cream: RAL9001 RGB: 255/252/240 | |
| | Traffic orange: RAL2009 RGB : 235/059/028 | | Traffic red: RAL3020 RGB: 199/023/018 | |
| | | | Melon yellow: RAL1028 RGB: 255/140/026 | |

Generating Set Type & Trailer Optional:

| SR2 Type Generating Set | Trailer Generating Set | ATS Cabinet |
|-------------------------|------------------------|-------------|
| | | |

Our other related products:

| Mobile Lighting Tower | Hybrid Energy Generator Station |
|-----------------------|---------------------------------|
| | |

Contact Us

Hyperteck Electrical Services Ltd.
P. O. Box 15537-00100 Nairobi, Kenya,
Hyperteck Centre, Thika Super Highway, Exit 7
(Between Crescent Petrol Station & A-Plus Motors, Near Safari Park Hotel)
Tel: +254-716-200200, +254-717-200200
Email: info@hyperteckelectrical.com
Website: www.hyperteckelectrical.com