

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

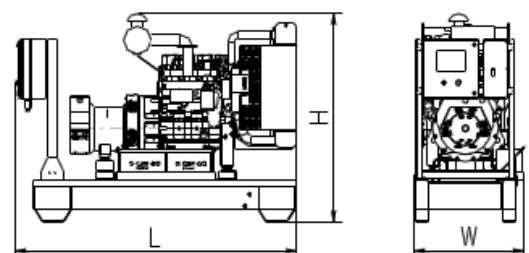
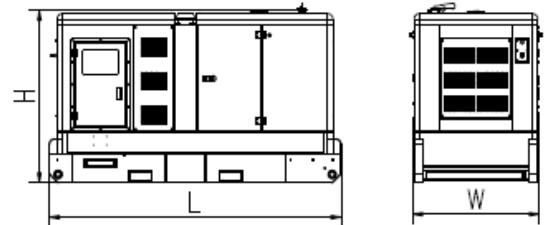


CE certificate

Dimension, Weight, Fuel Tank Capacity

Generating set model	HPLS135S-1	HPLS135S-1
Length(L) (mm)	3200	2650
Width(W) (mm)	1130	850
Height(H) (mm)	1730	1470
Dry weight (kg)	2155	1530
Tank capacity(L)	270	210
The loading capacity (40'HC)	6 Sets	8 Sets

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



Generating Set Technical Data

Prime power(Output)	135 kVA/108kW
Standby power(Output)	148.5kVA/118.8kW
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	1106A-70TG1
Alternator model	TAL-A44-H
Fuel consumption of 75% load	26.5 Litres/h
Fuel consumption of 100% load	35.2 Litres/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	1106A-70TG1 (Perkins)
Emission Certification	---
Number of cylinders	6
Cylinder arrangement	In-line
Cycle	Four stroke
Aspiration	Turbocharged
Bore x Stroke	105 x 135 mm
Displacement	7.01 Liter
Compression ration	18.2:1
Prime power/speed	133.5 kW/1500 rpm
Standby power/speed	148.4 kW/1500 rpm
Speed governor	Mechanical
Cooling system	Forced Water Cooling Cycle
Frequency droop	≤5%
Total lubrication system capacity	18 Liter
Coolant capacity (engine only)	9.5 Liter
Fuel consumption	100% load
	210.9 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-A44-H
Alternator manufacturer	LEROY SOMER
Rated frequency /Rated speed	50 Hz /1500 rpm
Rated output prime power	137.5KVA
Rated voltage	400 V
Phase	3
Power factor	0.8
Efficiency (%)	91.7%
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		Mecc alte	MPMC
Optional alternator model		ECP34 1L4A	LYG 274D
Exciter type		Self-excited	Self-excited
Rated output prime power		135KVA	140kVA

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)	√	√	√	<p>IL-NT-AMF25(ComAp)</p> <p>IC-NT-MINT(ComAp)</p> <p>DSE8610(Deepsea)</p> <p>HGM6120(SmartGen)</p>
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 & 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