HPLS80/HPLS80S-1



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.









Generating Set Technical Data				
Prime power(Output)	80kVA/64kW			
Standby power(Output)	88kVA/70.4kW			
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	1104A-44TG1			
Alternator model	TAL-A44-C			
Fuel consumption of 75% load	14.0 Litres/h			
Fuel consumption of 100% load	18.7 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.

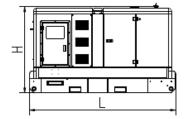




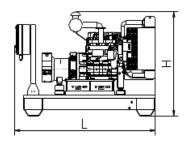
Photos are for reference only

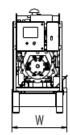
Dimension, Weight, Fuel Tank Capacity			
Generating set model	HPLS80S-1	HPLS80S-1	
Length(L) (mm)	2800	2275	
Width(W) (mm)	1130	700	
Height(H) (mm)	1580	1380	
Dry weight (kg)	1650	1150	
Tank capacity(L)	280	173	
The loading capacity (40'HC)	8 Sets	15 Sets	

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













HP Series

HPLS80/HPLS80S-1

Replaceable fuel filter and dry element air filter



Engine Specifications				
Engine model & manufacturer	1104A-44TG1(Perkins)			
Emission Certification				
Number of cylinders	6			
Cylinder arrangement	In-line			
Cycle	Four stroke			
Aspiration	Turbocharged			
Bore x Stroke	105 x 127 mm			
Displacement	4.4 Liter			
Compression ration	17.25:1			
Prime power/speed	73.4 kW/1500 rpm			
Standby power/speed	80.7 kW/1500 rpm			
Speed governor	Mechanical			
Cooling system	Forced Water Cooling Cycle			
Frequency droop	≤5%			
Total lubrication system capacity	8.0Liter			
Coolant capacity (engine only)	7.0 Liter			
Fuel consumption 100% load	216.5 g/kW.h (at 1500 rpm)			
Starter motor	DC12V			
Charge alternator	DC12V			
Heavy duty Perkins diesel engine	Cooling radiator and fan			
 Four stroke, water cooled, naturally aspirated 	Starter battery(with lead acid) including			
Direct injection fuel system	Flexible fuel connection hoses			
Mechanical governor system	 Industrial capacity exhaust silencer and steel bellows 			
12V DC starter and charge alternator	Operation manuals and circuit diagram documents			

Alternator Specifications				
Alternator model		TAL-A44-C		
Alternator manufacturer		LEROY SOMER		
Rated frequency /Rated speed		50 Hz /1500 rpm		
Rated output prime power		85KVA		
Rated voltage		400 V		
Phase		3		
Power factor		0.8		
Efficiency (%)		90.2%		
Exciter type		Self excited, Brushless		
Voltage adjust range		≥5.0%		
Voltage regulation		≤±1.0%		
Insulation grade		Н		
Protection grade		IP23		
Alternator Optional				
Optional alternator brand	STAMFORD		Mecc alte	MPMC
Optional alternator model	UCI 224G		ECP32 4L4B	LYG 224FC
Exciter type	Self-excited		Self-excited	Self-excited
Rated output prime power	85kVA		80KVA	80 kVA





HPLS80/HPLS80S-1



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)	\checkmark	$\sqrt{}$	$\sqrt{}$	IL-NT-AMF25(ComAp)
Voltage between neutral and phase(L-N)	×	V	√	Control
Frequency	$\sqrt{}$	V	√	Intollitie Intollitie
3 Phase current	$\sqrt{}$	V	V	THE TOTAL PROPERTY OF THE PARTY
Real power(kW) and apparent power(kVA)	$\sqrt{}$	V	√	man in m
Power factor	$\sqrt{}$	V	√	IC-NT-MINT(ComAp)
Engine speed	$\sqrt{}$	V	√	InteliCompact" ComAp
Running hours	$\sqrt{}$	V	√	000 200 000 000 000 000 000 000 000 000
Coolant temperature	$\sqrt{}$	V	√	
Oil pressure	$\sqrt{}$	V	√	1/0
Battery voltage	\checkmark	$\sqrt{}$	$\sqrt{}$	DCF9C10/Doomson)
LCD alarm indication	$\sqrt{}$	V	$\sqrt{}$	DSE8610(Deepsea)
3 Phase mains (utility) sensing	×	√	V	Community Technology Living Dy Living Dy
Protecting Functions				<u></u>
Emergency stop button	\checkmark	$\sqrt{}$	$\sqrt{}$	
High coolant temperature	$\sqrt{}$	$\sqrt{}$	$\sqrt{}$	LICNAC120/Consent Cons
Low oil pressure				HGM6120(SmartGen)
Over current/load	$\sqrt{}$	V	√	Generic Controller
under/over speed, frequency & voltage	$\sqrt{}$	\checkmark	V	THERE O. HE
Low/High battery voltage	\checkmark	$\sqrt{}$	V	
Low coolant level	Optional	Optional	Optional	

Optional:

Engine	Alternator	Fuel System	Generating Set
Water JacketPreheaterOil PreheaterOil manual pump	PMG excitationSpace heaterWinding temperature measuring	 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) 	Tools with the machineTrailer



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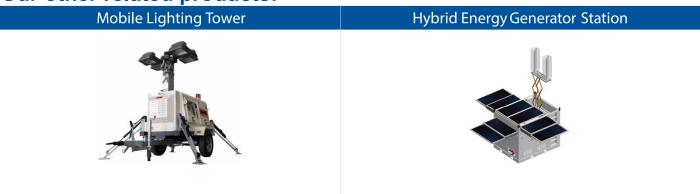
Generating Set Color:

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	
	Pure white: RAL9010 RGB: 250/255/255		Cream: RAL9001 RGB: 255/252/240	
Canopy	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:



Our other related products:



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



