HP Series HPLS20/HPLS20S-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.



Quality system certified

OHSAS18001 System certification

CE certificate

Generating Set Technical Data

Prime power(Output)	20 kVA/16kW
Standby power(Output)	22kVA/17.6kW
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)	65
Engine model	404D-22G
Alternator model	TAL-A40-F
Fuel consumption of 75% load	4.0Litres/h
Fuel consumption of 100% load	5.3Litres/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.

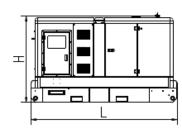
Perkins

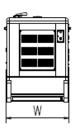


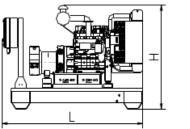
Photos are for reference only

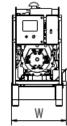
Dimension, Weight, Fuel Tank Capacity			
Generating set model	HPLS20S-1	HPLS20S-1	
Length(L) (mm)	1950	1435	
Width(W) (mm)	770	500	
Height(H) (mm)	1136	1150	
Dry weight (kg)	755	415	
Tank capacity(L)	65	58	
The loading capacity (40'HC)	36 Sets	30 Sets	

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













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HP Series HPLS20/HPLS20S-1



Engine Specifications				
Engine model & manufacturer	404D-22G (Perkins)			
Emission Certification	Stage II / Tier 4			
Number of cylinders	4			
Cylinder arrangement	In-line			
Cycle	Four stroke			
Aspiration	Naturally aspirated			
Bore x Stroke	84 x 100 mm			
Displacement	2.216 Liter			
Compression ration	23.3:1			
Prime power/speed	18.7 kW/1500 rpm			
Standby power/speed	20.6 kW/1500 rpm			
Speed governor	Mechanical			
Cooling system	Forced Water Cooling Cycle			
Frequency droop	≤5%			
Total lubrication system capacity	10.6 Liter			
Coolant capacity (engine only)	3.6 Liter			
Fuel consumption 100% load	233 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				

12V DC starter and charge alternator •

- Operation manuals and circuit diagram documents •
- Replaceable fuel filter and dry element air filter

Alternator Specifications					
Alternator model		TAL-A40	-F		
Alternator manufacturer		LEROY SOMER			
Rated frequency /Rated speed		50 Hz /1500 rpm			
Rated output prime power	Rated output prime power				
Rated voltage		400 V			
Phase		3			
Power factor		0.8			
Efficiency (%)	85.3%				
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	STAMFORDS		Mecc alte	MPMC	
Optional alternator model	S0L2-G1		ECP28 M4A	LYG 184E	
Exciter type	Self-excited		Self-excited	Self-excited	
Rated output prime power	20kVA		20KVA	22.5 kVA	





Control System

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

NANO3 (ComAp)



Suitable for \leq 250kVA Gen-sets

DSE4520 (Deepsea)



Suitable for >250kVA Gen-sets

DSE7320 (Deepsea)



Suitable for all series Gen-sets

The Controller I CD Display	NANO3	DSE4520	DSE7320	Controllor Ontional
The Controller LCD Display	control system	control system	control system	Controller Optional
Voltage between phases(L-L)	√	√	√	IL-NT-AMF25(ComAp)
Voltage between neutral and phase(L-N)	×			Conto
Frequency	\checkmark		\checkmark	Intellities and a second second
3 Phase current	\checkmark	\checkmark	\checkmark	
Real power(kW) and apparent power(kVA)	\checkmark	\checkmark	\checkmark	and many in my and
Power factor	\checkmark	\checkmark	\checkmark	IC-NT-MINT(ComAp)
Engine speed	\checkmark	\checkmark	\checkmark	InteliCompact" Comap
Running hours	\checkmark	\checkmark	\checkmark	
Coolant temperature	\checkmark	\checkmark	\checkmark	
Oil pressure	\checkmark		\checkmark	
Battery voltage	\checkmark		\checkmark	
LCD alarm indication	\checkmark	\checkmark	\checkmark	DSE8610(Deepsea)
3 Phase mains (utility) sensing	×	\checkmark	\checkmark	
Protecting Functions				
Emergency stop button	\checkmark	\checkmark	\checkmark	o o o o o
High coolant temperature	\checkmark	\checkmark	\checkmark	UCM6120/SmortCon)
Low oil pressure	\checkmark	\checkmark	\checkmark	HGM6120(SmartGen)
Over current/load	\checkmark	\checkmark	\checkmark	
under/over speed, frequency & voltage	\checkmark	\checkmark	\checkmark	市理新算: A.992 学习成式: ▼
Low/High battery voltage	\checkmark			
Low coolant level	Optional	Optional	Optional	

Optional:

Engine	Alternator	Fuel System	Generating Set
 Water Jacket Preheater Oil Preheater Oil manual pump 	 PMG excitation Space heater Winding 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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HP Series HPLS20/HPLS20S-1



Generating Set Color:

Parts	Standar	d 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

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