

Technical Specification



Model: **DS-13K-YSS**

Powered by YANGDONG



Applicable Standards

ISO 8528-5:2018
GB/T2820.5-2009
CE

General Information		Prime power	Standby power
Rated Power (kVA)		12	13
Power Rating (kW)		12	13
Frequency (Hz)		60	
Engine Model		YD385D	
Engine Speed (RPM)		1800	
Phase		1	
PF		1	
Control System		Digital	
Rated voltage (V)		120/240 (According to customer requirements)	
Fuel tank capacity operating time		≥ 8h @ 75% load	
Fuel Consumption (L/h)	110% load	4.2	
	100% load	3.9	
	75% load	2.9	
	50% load	1.9	

Environmental Conditions

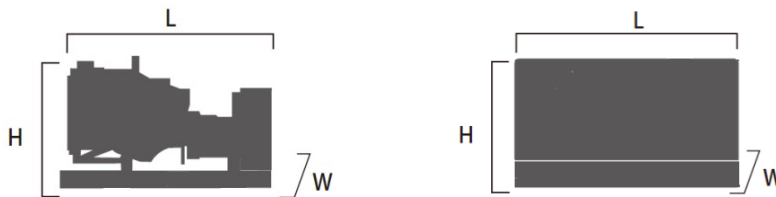
Ambient temperature: +5°C~+40°C
Altitude: ≤1000m
Remark: If your conditions are different from the above, please contact our sales.

Factory Inspection

Complete design and quality inspection
0%, 25%, 50%, 75%, 100%, 110% load test.
Function test.
Protection test

Painting Process

DS Power has the most advanced automatic spraying / powder coating production line, and is equipped with various sandblasting equipment to ensure higher quality.
Canopy painting: Henkel pretreatment process and world famous brand AkzoNobel powder.
Base Frame painting: Sandblasting process and AkzoNobel powder



Dimension and Weight		
Model	DS-13K-YSO Open type	DS-13K-YSS Silent type
Length (L) mm	1500	1500
Width (W) mm	600	760
Height (H) mm	1000	1000
Dry weight (kg)	460	600
Tank capacity (L)	75	40
The loading capacity (40'HC)	30 units	34 units

Note: Specifications and illustrations are subject to revision without notice.



Engine Specifications

Engine model & manufacturer		YD385D (Yangdong)
Emission Certification		-----
Number of cylinders		3
Cylinder arrangement		In line
Cycle		Four stroke
Aspiration		Naturally aspirated
Bore x Stroke		85x 90 mm
Displacement		1.532 L
Compression ration		18: 1
Prime power /speed		10kW/1800 rpm
Standby power /speed		13kW/1800 rpm
Speed governor		Mechanical
Cooling system		Forced Water Cooling Cycle
Frequency droop		≤5%
Total lubrication system capacity		TBA
Coolant capacity		TBA
Fuel consumption	100% load	255 g/kWh @1800 rpm
Starter motor		DC 12V
Charge alternator		DC 12V
<ul style="list-style-type: none"> ◆ Heavy duty diesel engine ◆ Anti-vibration mount ◆ Replaceable fuel filter, oil filter & air filter ◆ Cooling radiator and fan 		<ul style="list-style-type: none"> ◆ Starter battery (with lead acid) including rack and cables ◆ Flexible fuel connection hoses ◆ Exhaust silencer and bellows ◆ Operation manuals and circuit diagram documents

Alternator Specifications

Alternator	PI.044G(STAMFORD)
Number of phase	1
Power factor (Cos Phi)	1
Poles	4
Insulation type	H class
Winding Pitch	2/3
IP rating	IP23
Bearing	Single bearing
Voltage regulator	A.V.R
Coupling	Flexible disc

Technical Specification

Control Panel

DSE4520MKII

AUTO MAINS FAILURE CONTROL MODULE



Key benefits

- 3 phase generator sensing
- 3 phase mains (utility) sensing
- Compatible with 600 V ph to ph nominal systems
- Generator/load power monitoring (kW, kV A, kV Ar, pf)
- Accumulated power monitoring (kW h, kVA h, kVAh)
- Generator overload protection (kW)
- Generator/load current monitoring and protection
- Fuel and start outputs (configurable when using CAN)
- 4 configurable DC outputs
- 3 configurable analogue/digital inputs
- 4 configurable digital inputs
- Configurable staged loading outputs

Key features

- Load unbalanced alarm
- Configurable for use as an auto start and AMF control module
- J1939-75 support and CAN alarm ignore function
- Alternator frequency & CAN speed sensing in one variant
- Largest back-lit icon display in its class
- Heated display option
- Real time clock provides accurate event logging
- Fully configurable via the fascia or PC using USB communication
- Extremely efficient power save mode

- 3 engine maintenance alarms
- Engine speed protection
- Engine hours counter
- Engine pre-heat
- Engine run-time scheduler
- Engine idle control for starting & stopping
- Tier 4 engine instrumentation screens
- Battery voltage monitoring
- Start on low battery voltage
- Configurable remote start input

Options

Engine	Alternator	Fuel System	Generating Set
<ul style="list-style-type: none"> <input type="checkbox"/> Water Jacket Preheater <input type="checkbox"/> Oil Preheater <input type="checkbox"/> Oil manual pump 	<ul style="list-style-type: none"> <input type="checkbox"/> PMG excitation <input type="checkbox"/> Space heater <input type="checkbox"/> Winding temperature measuring 	<ul style="list-style-type: none"> <input type="checkbox"/> 12 / 24 hour base tank <input type="checkbox"/> Bunded fuel tank <input type="checkbox"/> External fuel tank <input type="checkbox"/> Automatic fuel feeding <input type="checkbox"/> Switch between external tank and base tank (three-way valve) 	<ul style="list-style-type: none"> <input type="checkbox"/> Deepsea, ComAp, Smartgen etc. controller <input type="checkbox"/> Trailer <input type="checkbox"/> Tools with the machine

DS SERVICIOS MULTIPLES, SRL.
Calle Sofia Montaño #5, Santa martha, La Venta, SDO.
TEL: (809) 937- 1701,
Email: gerencia@plantasgrandes.com
www.plantasgrandes.com.com