



## **DIESEL GENERATOR SETS**

R-P Series
Powered by Perkins Engines

R-P20D5/S

50<sub>47</sub>

- 1) Ambient reference conditions: 1,000 mbar, 25°C, 60% relative humidity
- Standby Power Standby duty, operation under variable load, without Over load;
- 3) Prime Power-Continuous duty operation, under variable load 24/24h
   -10% over load permissible 1 hour/12 hours

## **Output Ratings**

	I	nree-Phase, 50	)HZ,	1500K	PM
	Output	Prime Power		Standby Power	
	Output	20 kVA / 16 kV	<b>V</b>	22 kVA / 18 kW	
I	Voltage (V)	Frequency (Hz)	Curi	rent(A)	Power Factor
	380/220	50		30	0.8
	400/230	50		29	0.8
	415/240	50		28	0.8

#### **Features**

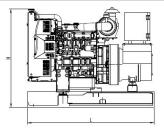
- Strong power, high torque, easy to maintain, easy to start;
- Low noise, low emissions;
- Cabinet made of high quality sheet metal, corrosion-resistant, scratch-resistant;
- Canopy sealing performance, high waterproof, dust-proof, rain, dust and other difficult to access;
- Omni-directional control, easy connection and simple;
- Cranes, fork, pull, drag, easy transportation;
- ≥8-hour fuel tanks;
- Open type with 40°C radiator, Soundproof type with 50°C radiator

#### **Performance Data**

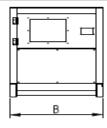
Engine Brand	& Model	Perkins & 404D-22G
Alternator Bran	d & Madal	Leroy Somer &
Allemator Dram	u & Model	TAL-A40-F
Control Sy	stem	DSE4620/ DSE8610
Circuit Breaker Type (Standard)		3 Pole MCCB
Fuel	100% Load	6.1
Fuel	75% Load	5.3
Consumption (l/hr)	50% Load	4.0
(1/111)	25% Load	2.9

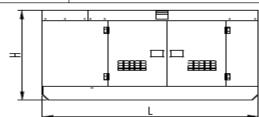
## **Dimensions and Weights**

C	Content	Open Sets	Soundproof Sets
	L	1300	2030
Dimensions: (mm)	W	780	750
	Н	1180	1105
We	eight (kg)	840	1160











## Engine Brand / Model & Perkins / 404D-22G

No. of Cylinders / Alignment	4 / In Line	Gross Engine	Prime	18.7
Cycle	4 Stroke	Power (kW) Standby		20.6
Bore / Stroke	84 mm / 100 mm	Compression Ratio		23.3:1
Induction	NA	Displacement (L)		2.216
Cooling Method	Water	Governing Type		Mechanical
Lubricant Oil	15W40-CF4	Net weight (kg)		242
Lubricant Oil Capacity (L)	10.6	Coolant Capacity (L)		7

## Alternator Brand / Model & Leroy Somer / TAL-A40-F

Rated Capacity (kVA)	20	A.V.R. Model	R120
Rated Power(kW)	16	Voltage Regulation (no load- full load)	± 1.0%
THF(BS EN60034 – 1)	<2%	Underspeed Protection	Standard
Bearing Number	Single	Protection	IP23
Windings	100% Copper	Phase Sequence	A(U), B(V), C(W)
Silicon Steel Core Processing	One Piece Punching	TIF(NEMA MG 1-22)	<50
Insulation Class	Н	Excitation System	Self-excited,
IIISulation Class	П	Excitation System	SHUNT
Winding Pitch	2/3	Ambient Temp.	50 °C
Amortisseur Winding	Full	Stator Rated Temp.	125 °C

## **Control System:**



**DSE4620** 

OCEP SEA RECTRONICS

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**DSE8610** 

- Monitoring engine speed, oil pressure, coolant temperature, frequency, voltage, current, power and fuel level, the modules will give comprehensive engine and alternator protection. This will be indicated on the largest back-lit LCD icon display in its class via an array of warning, electrical trip and shutdown alarms.
- Alternator sensing, engine support for diesel, gas and petrol engines all in one variant. With a number of flexible inputs, outputs and protections, the modules can be easily adapted to suit a wide range of applications including lighting towers with the added option for staged loading outputs.
- Through USB Communication both modules can be easily configured using the DSE Configuration Suite PC Software or can be fully configured through the module's front panel editor.
- The DSE8610 is an easy to use multi-generator loadshare system, designed to synchronise up to 32 generators including electronic and non-electronic engines.
- The DSE8610 monitors the generator and indicates operational status and fault conditions, automatically starting or stopping the engine on load demand or fault condition.
- System alarms are annunciated on the LCD screen (multiple language options available), illuminated LED and audible sounder.
- The event log will record 250 events to facilitate easy maintenance. An extensive number of fixed and flexible monitoring, metering and protection features are included as well as comprehensive communication and system expansion options.



#### The Reliable Supplier for Power System Solution

#### **Documents**

Engine parts manual and original data	Generator set maintenance record manual
Alternator original data	Generator set instruction manual
Controller system original data	Generator combination certificate
Generator set factory test report	

# **Optional**

Engine	Controller System
Water heater	Compartment operation remote control system
Fuel heater	With three remote control screen
Oil heater	Auto Transfer Switch
Secondary silencer	Multiple units are automatically connected in synchronize
Water separator	Centralized monitoring
Alternator	Others
Anti condensation heater	Separate fuel Tank
Anti condensation neater	Separate ruei rank
Permanent magnet generator (PMG)	Buried storage tank
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<ul><li>Permanent magnet generator (PMG)</li><li>Drop CT( Paralleling)</li></ul>	Buried storage tank     Fully automatic oil supply system
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<ul> <li>Permanent magnet generator (PMG)</li> <li>Drop CT( Paralleling)</li> <li>Other alternator temperature rise level</li> <li>Stator winding temperature sensor RTD</li> </ul>	<ul> <li>Buried storage tank</li> <li>Fully automatic oil supply system</li> <li>Remote water tank</li> <li>Waterproof Type genset</li> </ul>

### **Service Commitment**

- The products provided are all new products. each gensets undergoes strict factory inspection.
- Products are provided with "three guarantees" service, the period is 12 months after the unit is adjusted and the accumulated running time is 1000 hours, whichever comes first.
- The services and accessories of products can be obtained from the after-sales service department (86-510-83781999-1009).





E-Mail: info@rcgpower.com

We reserve the right to make changes in model, technical specification, color, configuration and accessories without prior notice. Please contact the us before ordering.

