DEUTZ DPS 50 SG

TECHNICAL DATA

Main data	
Prime power (PRP)	48.0 (kVA)
Prime power (PRP)	38.4 (kWe)
Standby power (LTP)	50.0 (kVA)
Standby power (LTP)	40.0 (kWe)
Voltage, frequency, pf	220V/128V, 60HZ @ 0.8
Sound pressure 7m dB(A)	69.0
Performance class (ISO 8528)	G2

Engine brand DEUTZ Engine model BF4M2011 Cylinders 4 Speed 1800 rpm Cubic capacity 3.1 L Air intake Turbocharged Standard voltage 12Vdc SAE 3-11.5 BMEP 1010 kPa Cooling Oil Flywheel P.R.P. power 43.2 kW Flywheel standby power 45.5 kW Governor class G2 Governor type Mechanical Oil Quantity 10 L Engine coolant capacity 14 L Radiator standard ROA Heat from radiator 29 kW Heat from exhaust NA Heat from radiation 7 kW Exhaust temperature 560 deg C Cooling air flow 2265 m3/h Combustion air volume 191 m3/h Exhaust gas flow 531 m3/h TA Luft/2 NA EPA D20C45.9 Stage Stage 2	Engine	
Cylinders 4 Speed 1800 rpm Cubic capacity 3.1 L Air intake Turbocharged Standard voltage 12Vdc SAE 3-11.5 BMEP 1010 kPa Cooling Oil Flywheel P.R.P. power 43.2 kW Flywheel standby power 45.5 kW Governor class G2 Governor type Mechanical Oil Quantity 10 L Engine coolant capacity 14 L Radiator standard ROA Heat from radiator 29 kW Heat from radiation 7 kW Exhaust temperature 560 deg C Cooling air flow 2265 m3/h Combustion air volume 191 m3/h Exhaust gas flow 531 m3/h TA Luft Standard TA Luft/2 NA EPA D20C45.9	Engine brand	DEUTZ
Speed 1800 rpm Cubic capacity 3.1 L Air intake Turbocharged Standard voltage 12Vdc SAE 3-11.5 BMEP 1010 kPa Cooling Oil Flywheel P.R.P. power 43.2 kW Flywheel standby power 45.5 kW Governor class G2 Governor type Mechanical Oil Quantity 10 L Engine coolant capacity 14 L Radiator standard ROA Heat from radiator 29 kW Heat from exhaust NA Heat from radiation 7 kW Exhaust temperature 560 deg C Cooling air flow 2265 m3/h Combustion air volume 191 m3/h Exhaust gas flow 531 m3/h TA Luft Standard TA Luft/2 NA EPA D2OC45.9	Engine model	BF4M2011
Cubic capacity Air intake Turbocharged Standard voltage SAE SAE 3-11.5 BMEP 1010 kPa Cooling Oil Flywheel P.R.P. power Flywheel standby power Governor class Governor type Mechanical Oil Quantity Dil Quantity Engine coolant capacity Heat from radiator Heat from radiator Heat from radiation T kW Exhaust temperature Cooling air flow Combustion air volume TA Luft TA Luft Standard TA Luft/2 NA TA Luft Standard TA Luft/2 NA Ta Luft Ta Luft/2	Cylinders	4
Air intake Turbocharged Standard voltage 12Vdc SAE 3-11.5 BMEP 1010 kPa Cooling Oil Flywheel P.R.P. power 43.2 kW Flywheel standby power 45.5 kW Governor class G2 Governor type Mechanical Oil Quantity 10 L Engine coolant capacity 14 L Radiator standard ROA Heat from radiator 29 kW Heat from radiation 7 kW Exhaust temperature 560 deg C Cooling air flow 2265 m3/h Combustion air volume 191 m3/h Exhaust gas flow 531 m3/h TA Luft Standard TA Luft/2 NA EPA D2OC45.9	Speed	1800 rpm
Standard voltage12VdcSAE3-11.5BMEP1010 kPaCoolingOilFlywheel P.R.P. power43.2 kWFlywheel standby power45.5 kWGovernor classG2Governor typeMechanicalOil Quantity10 LEngine coolant capacity14 LRadiator standardROAHeat from radiator29 kWHeat from exhaustNAHeat from radiation7 kWExhaust temperature560 deg CCooling air flow2265 m3/hCombustion air volume191 m3/hExhaust gas flow531 m3/hTA LuftStandardTA Luft/2NAEPAD2OC45.9	Cubic capacity	3.1 L
SAE 3-11.5 BMEP 1010 kPa Cooling Oil Flywheel P.R.P. power 43.2 kW Flywheel standby power 45.5 kW Governor class G2 Governor type Mechanical Oil Quantity 10 L Engine coolant capacity 14 L Radiator standard ROA Heat from radiator 29 kW Heat from exhaust NA Heat from radiation 7 kW Exhaust temperature 560 deg C Cooling air flow 2265 m3/h Combustion air volume 191 m3/h Exhaust gas flow 531 m3/h TA Luft Standard TA Luft/2 NA EPA D2OC45.9	Air intake	Turbocharged
BMEP Cooling Oil Flywheel P.R.P. power Flywheel standby power Governor class G2 Governor type Mechanical Oil Quantity 10 L Engine coolant capacity Radiator standard ROA Heat from radiator Heat from radiation T kW Exhaust temperature Cooling air flow Combustion air volume EyA D2OC45.9	Standard voltage	12Vdc
Cooling Oil Flywheel P.R.P. power 43.2 kW Flywheel standby power 45.5 kW Governor class G2 Governor type Mechanical Oil Quantity 10 L Engine coolant capacity 14 L Radiator standard ROA Heat from radiator 29 kW Heat from exhaust NA Heat from radiation 7 kW Exhaust temperature 560 deg C Cooling air flow 2265 m3/h Combustion air volume 191 m3/h Exhaust gas flow 531 m3/h TA Luft Standard TA Luft/2 NA EPA D20C45.9	SAE	3-11.5
Flywheel P.R.P. power 43.2 kW Flywheel standby power 45.5 kW Governor class G2 Governor type Mechanical Oil Quantity 10 L Engine coolant capacity 14 L Radiator standard ROA Heat from radiator 29 kW Heat from exhaust NA Heat from radiation 7 kW Exhaust temperature 560 deg C Cooling air flow 2265 m3/h Combustion air volume 191 m3/h Exhaust gas flow 531 m3/h TA Luft Standard TA Luft/2 NA EPA D20C45.9	BMEP	1010 kPa
Flywheel standby power Governor class G2 Governor type Mechanical Oil Quantity 10 L Engine coolant capacity Radiator standard ROA Heat from radiator Heat from exhaust NA Heat from radiation T kW Exhaust temperature Fooling air flow Combustion air volume TA Luft TA Luft EPA Mechanical Mechanical ROA Mechanical ROA Mechanical ROA Exhaust temperative So kW Ta Luft Standard TA Luft/2 NA EPA D20C45.9	Cooling	Oil
Governor class G2 Governor type Mechanical Oil Quantity 10 L Engine coolant capacity 14 L Radiator standard ROA Heat from radiator 29 kW Heat from exhaust NA Heat from radiation 7 kW Exhaust temperature 560 deg C Cooling air flow 2265 m3/h Combustion air volume 191 m3/h Exhaust gas flow 531 m3/h TA Luft Standard TA Luft/2 NA EPA D20C45.9	Flywheel P.R.P. power	43.2 kW
Governor type Mechanical Oil Quantity 10 L Engine coolant capacity 14 L Radiator standard ROA Heat from radiator 29 kW Heat from exhaust NA Heat from radiation 7 kW Exhaust temperature 560 deg C Cooling air flow 2265 m3/h Combustion air volume 191 m3/h Exhaust gas flow 531 m3/h TA Luft Standard TA Luft/2 NA EPA D20C45.9	Flywheel standby power	45.5 kW
Oil Quantity Engine coolant capacity 14 L Radiator standard ROA Heat from radiator Heat from exhaust Heat from radiation TokW Exhaust temperature Cooling air flow Combustion air volume Exhaust gas flow TA Luft TA Luft/2 NA 10 L ROA ROA ROA ROA PA Separation 19 kW Exhaust temperature 560 deg C 2265 m3/h Combustion air volume 191 m3/h Exhaust gas flow TA Luft Standard TA Luft/2 NA EPA D20C45.9	Governor class	G2
Engine coolant capacity 14 L Radiator standard ROA Heat from radiator 29 kW Heat from exhaust NA Heat from radiation 7 kW Exhaust temperature 560 deg C Cooling air flow 2265 m3/h Combustion air volume 191 m3/h Exhaust gas flow 531 m3/h TA Luft Standard TA Luft/2 NA EPA D20C45.9	Governor type	Mechanical
Radiator standard ROA Heat from radiator 29 kW Heat from exhaust NA Heat from radiation 7 kW Exhaust temperature 560 deg C Cooling air flow 2265 m3/h Combustion air volume 191 m3/h Exhaust gas flow 531 m3/h TA Luft Standard TA Luft/2 NA EPA D20C45.9	Oil Quantity	10 L
Heat from radiator 29 kW Heat from exhaust NA Heat from radiation 7 kW Exhaust temperature 560 deg C Cooling air flow 2265 m3/h Combustion air volume 191 m3/h Exhaust gas flow 531 m3/h TA Luft Standard TA Luft/2 NA EPA D20C45.9	Engine coolant capacity	14 L
Heat from exhaustNAHeat from radiation7 kWExhaust temperature560 deg CCooling air flow2265 m3/hCombustion air volume191 m3/hExhaust gas flow531 m3/hTA LuftStandardTA Luft/2NAEPAD20C45.9	Radiator standard	ROA
Heat from radiation 7 kW Exhaust temperature 560 deg C Cooling air flow 2265 m3/h Combustion air volume 191 m3/h Exhaust gas flow 531 m3/h TA Luft Standard TA Luft/2 NA EPA D20C45.9	Heat from radiator	29 kW
Exhaust temperature 560 deg C Cooling air flow 2265 m3/h Combustion air volume 191 m3/h Exhaust gas flow 531 m3/h TA Luft Standard TA Luft/2 NA EPA D20C45.9	Heat from exhaust	NA
Cooling air flow2265 m3/hCombustion air volume191 m3/hExhaust gas flow531 m3/hTA LuftStandardTA Luft/2NAEPAD20C45.9	Heat from radiation	7 kW
Combustion air volume 191 m3/h Exhaust gas flow 531 m3/h TA Luft Standard TA Luft/2 NA EPA D20C45.9	Exhaust temperature	560 deg C
Exhaust gas flow 531 m3/h TA Luft Standard TA Luft/2 NA EPA D20C45.9	Cooling air flow	2265 m3/h
TA Luft Standard TA Luft/2 NA EPA D20C45.9	Combustion air volume	191 m3/h
TA Luft/2 NA EPA D2OC45.9	Exhaust gas flow	531 m3/h
EPA D2OC45.9	TA Luft	Standard
	TA Luft/2	NA
Stage Stage 2	EPA	D2OC45.9
	Stage	Stage 2



Stamford
S1L2-Y
Parallel Star
3PH + N
12 terminals Winding 311
12 nr.
23
AS540
1.0 +/- %
Cont. H

DEEP SEA
DSE4520 MKII

Fuel consumption	
Fuel Cons. @ 100% (LTP)	12.9 l/h
Fuel Cons. @ 100% (PRP)	12.2 l/h
Fuel Cons. @ 75% (PRP)	9.0 l/h
Fuel Cons. @ 50% (PRP)	6.1 l/h
Fuel Cons. @ 25% (PRP)	3.6 l/h





Dimensions & weight	(Acoustic canopy)
Length	1980 mm
Width	924 mm
Height	1200 mm
Mass (Dry)	~1000kg

Reference conditions	
Standard reference condition temp.	25 deg C
Altitude	100 masl
Relative humidity	30%
Atmospheric pressure	100 kpa
Power factor	0.8 lag
Balanced load	Non-distortional

Base frame	(Acoustic canopy)
Base frame model	C 20
Standard tank	90 litres



DEUTZ POWER SOLUTIONS 8	

Included accessories Battery charger Main circuit breaker External stop button Oil extraction pump

Ratings definitions

P.R.P. Prime power-continuous power at variable load

The power that a generator can supply in continuous service at a variable load for an unlimited number of hours per year while respecting the maintenance intervals established in the environmental conditions stated by the manufacturer according to ISO8528-1. The average power supplied over time and any applicable overload must be less than the percentages stated by the manufacturer.

L.T.P. Limited-time running power-limited power

The maximum power that a generator can supply for a limited time respecting the maintenance intervals established in the environmental conditions stated by the manufacturer according to ISO8528-1. The number of hours per year is stated by the manufacturer. Overload is not permitted.

Fuel consumption is nominal and refers to specific weight 0.850kg/l.

Sound power levels refer to free field conditions: Installation site may influence the values.

Dimensions, weights, and other specifications contained in the technical data sheet and related attachments are nominal, subject to tolerances and refer to the model with standard equipment. Any optional and additional equipment / accessories can modify weight, dimensions, and performance.

Included features

Mains monitoring capability

Configurable via fascia or PC using USB communication

Programable outputs for fuel, start and common fault





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