

SPECIFICATION

GENERAL SPECIFICATION

DGK100D Specifications				
Alternator	Generator Type		Revolving Field Brushless Ac 3 Phase-120/240V 1 Phase	
	Rated Output	kVA	100	
		kW	80	
	Voltage-Three phase	V	208,240,480	
	Voltage-Single phase	V	120,139,240,277	
	Amps	Single phase-120V		242 x 2 (ZigZag)
		Single phase-240V		242 (ZigZag)
		Three phase-240V		241
		Three phase-480V		120
	Frequency-regulation	Hz	60/50 ± less than 0.25%	
	Rated speed	rpm	1800/1500	
	Winding		Star with Neutral	
	Power factor		0.8	
	Insulation class		F	
Excitation		Self excitation (brushless)		
No. of poles		4		
Engine	Type		Vertical Water-cooled 4-cycle Diesel	
	Model (Manufacturer)		BT-4HK1 (ISUZU)	
	No. of Cylinders (bore x stroke)	(in./mm)	4 (6.10 x 4.92 / 155 x 125)	
	Continuous rated output		114.7kW (153hp) / 1800min ⁻¹	
	Rated speed,60/50Hz	rpm	1800/1500	
	Displacement	Cu.in./liters	317/5.193	
	Combustion system		Direct Injection,Turbo,Intercooler	
	Cooling method		Radiator	
	Lubricating method		Forced lubrication	
	Starting method		Electric	
	Fuel		ASTEM No. 2 Diesel	
	Fuel Consumption	gal./liters	5.147 / 23.4 per hour @ full load	
	Lubricating oil		CD class or higher	
	Fuel tank capacity	gal./liters	58.6 / 222	
	Lubricant volume	gal./liters	5.81 / 22	
	Cooling water volume	gal./liters	6.07 / 23	
	Starting motor capacity	V-kW	12V-2.5kW	
	Charging alternator capacity	V-A	12V-110A	
Battery capacity	V-AH	12V- 150AH		
Meters	Voltage/Frequency/Amperage/Hour			
Voltage Regulation	Automatic Voltage Regulator (No Load to Full Load)		3 Phase ± 1.0% 1 Phase ± 5.0%	
Speed Regulation			± 0.25%	
Shutdowns	Oil pressure, Water temperature, Over Speed		Lamp indication with shutdown	
Warning	Battery charge		Lamp indication	
Unit	Dimensions (L x W x H)	in./mm	102 x 49 x 71 / 2590 x 1240 x 1800	
	Dry weight	lbs./kg	4564 / 2070	
Sound Level	No Load	dB(A)	58	
	Full Load	dB(A)	61	

US emission certified at 1800 rpm only

Specifications are subject to change without notice.

Standard specification condition:

Altitude: 3280 ft (1000m) or lower, Temperature: 5 to 104° F (-15 to +40°C),

Humidity: 85% or lower (no condensation) *Reference data only*