OLYMPIAN[™]



GEP75-1

Diesel Generator Set Exclusively from your Cat[®] dealer

Image shown may not reflect actual package

Output Ratings				
Generating Set Model - 3 Phase	Prime*	Standby*		
380/220 V, 50 Hz	60.0 kVA 48.0 kW	65.0 kVA 52.0 kW		
220/127V, 60 Hz	68.8 kVA 55.0 kW	75.0 kVA 60.0 kW		

^{*} Refer to ratings definitions on page 4. Ratings at 0.8 power factor.

Technical Data					
Engine Make & Model:	Perkins 1103A-33TG2				
Alternator Model:	GTA 202AE32				
Control Panel:	PowerWizard 1.1				
Base Frame Type:	Heavy Duty Fabricated Steel	Heavy Duty Fabricated Steel			
Circuit Breaker Type:	3 Pole MCB / 3 Pole MCCB				
Frequency:	50 Hz	60 Hz			
Engine Speed: RPM	1500	1800			
Fuel Tank Capacity: litres (US gal)	145 (145 (38.3)			
Fuel Consumption, Prime: I/hr (US gal/hr)	13.7 (3.6)	16.2 (4.3)			
Fuel Consumption, Standby : I/hr (US gal/hr)	14.9 (3.9)	14.9 (3.9) 17.7 (4.7)			

Engine Technical Data

Physical Data	
Manufacturer:	Perkins
Model:	1103A-33TG2
No. of Cylinders/Alignment:	3 / In Line
Cycle:	4 Stroke
Induction:	Turbocharged
Cooling Method:	Water
Governing Type:	Mechanical
Governing Class:	ISO 8528 G2
Compression Ratio:	17.25:1
Displacement: I (cu.in)	3.3 (201.4)
Bore/Stroke: mm (in)	105.0 (4.1)/127.0 (5.0)
Moment of Inertia: kg m² (lb. in²)	1.14 (3896)
Engine Electrical System:	
-Voltage/Ground:	12/Negative
-Battery Charger Amps:	65
Weight: kg (lb) - Dry:	341 (752)
- Wet:	348 (767)

Air System		50 Hz	60 Hz
Air Filter Type:		Replaceable Elem	ent
Combustion Air Flo	ow:		
m³/min (cfm)	-Standby:	3.9 (138)	4.9 (173)
	-Prime:	3.8 (134)	4.7 (166)
Max. Combustion	Air Intake		
Restriction: kPa (in H ₂ O)	8.0 (32.1)	8.0 (32.1)
Radiator Cooling /	Air Flow:		
m³/min (cfm)		110.4 (3899)	145.8 (5149)
External Restriction	n to		
Cooling Air Flows	: Pa (in H ₂ O)	120 (0.5)	120 (0.5)

Cooling Syster	n	50 Hz	60 Hz
Cooling System C	apacity:		
I (US gal)		10.2 (2.7)	10.2 (2.7)
Water Pump Type	:	Centr	ifugal
Heat Rejected to V	Vater &		
Lube Oil: kW (Bt	u/min)		
	-Standby:	37.7 (2144)	42.8 (2434)
	-Prime:	35.2 (2002)	41.0 (2332)
Heat Radiation to	Room: Heat radiate	ed from engine and alt	ernator
kW (Btu/min)	-Standby:	16.8 (955)	16.9 (961)
	-Prime:	15.3 (870)	16.2 (921)
Radiator Fan Load	: kW (hp)	1.0 (1.3)	1.7 (2.3)
Cooling system desig (122°F). Contact you specific site condition	ur local Olympian ^T		

Lubrication System	
Oil Filter Type:	Spin-On, Full Flow
Total Oil Capacity I (US gal):	8.3 (2.2)
Oil Pan I (US gal):	7.8 (2.1)
Oil Type:	API CG4 / CH4 15W-40
Cooling Method:	Water

Performance		50 Hz	60 Hz	
Engine Speed: RPM		1500	1800	
Gross Engine Pow	er: kW (hp)			
-Standby:		60.5 (81.0)	69.6 (93.0)	
	-Prime:		63.3 (85.0)	
BMEP: kPa (psi)				
	-Standby:	1467.0 (212.8)	1407.0 (204.0)	
	-Prime:	1333.0 (193.4)	1279.0 (185.5)	
Regenerative Pow	er: kW	7.0	9.0	

Fuel System							
Fuel Filter Type:		Replaceable I	Replaceable Element				
Recomm	nended Fuel:	Class A2 Die:	sel or BSEN590)			
Fuel Co	nsumption: I/h	r (US gal/hr)					
110% Load		100% Load	75% Load	50% Load			
Prime							
50 Hz	14.9 (3.9)	13.7 (3.6)	10.3 (2.7)	7.3 (1.9)			
60 Hz	17.7 (4.7)	16.2 (4.3)	12.4 (3.3)	8.9 (2.4)			
Standby	′						
50 Hz		14.9 (3.9)	11.1 (2.9)	7.8 (2.1)			
60 Hz		17.7 (4.7)	13.4 (3.5)	9.5 (2.5)			
(based on diesel fuel with a specific gravity of 0.85 and conforming to BS2869, Class A2)							

Exhaust System		50 Hz	60 Hz
Silencer Type:		Indus	trial
Silencer Model & Qu	antity:	EXSY	1 (1)
Pressure Drop Acros	s		
Silencer System: k	Pa (in Hg)	0.98 (0.289)	1.22 (0.360)
Silencer Noise Reduc	ction		
Level: dB		19	18
Max. Allowable Back			
Pressure: kPa (in. l-	Hg)	10.0 (3.0)	15.0 (4.4)
Exhaust Gas Flow:			
m³/min (cfm)	-Standby:	10.4 (367)	12.5 (441)
	-Prime:	10.1 (357)	11.8 (417)
Exhaust Gas Temper	rature: °C (°F)		
	-Standby:		564 (1047)
-Prime:		557 (1035)	534 (993)

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Alternator Performance Data

		50	Hz		60 Hz				
Data Item			380/220V				208/120V		220/127V
Motor Starting Capability* kVA	-	-	200	-	-	-	193	-	220
Short Circuit Capacity %	-	-	300	-	-	-	300	-	300
Reactances: Per Unit									
Xd	-	-	1.590	-	-	-	1.980	-	1.700
X'd	-	-	0.111	-	-	-	0.132	-	0.116
X''d		-	0.093	-	-	-	0.111	-	0.097

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Reactances shown are applicable to prime ratings. *Based on 30% voltage dip at 0.6 power factor.

Alternator Technical Data

Physical Data	
Manufactured for Olympian by:	OLYMPIAN
Model:	GTA 202AE32
No. of Bearings:	1
Insulation Class:	Н
Winding Pitch - Code:	2/3 - NA
Wires:	12
Ingress Protection Rating:	IP21
Excitation System:	AUX COIL
AVR Model:	WRGA-01

Operating Data					
Overspeed: RPM		2250			
Voltage Regulation:	(steady state)	+/- 0.5%			
Wave Form NEMA =	: TIF:	50			
Wave Form IEC = T	HF:	2.0%			
Total Harmonic Cont	ent LL/LN:	5.0%			
Radio Interference:	Supression is Standard EN6	in line with European 1000-6			
Radiant Heat: kW (B	Radiant Heat: kW (Btu/min)				
-50 Hz:		5.8 (330)			
-60 I	Hz:	5.9 (336)			

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Technical Data

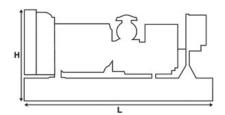
Voltage 50 Hz	Prime		Standby	
	kVA	kW	kVA	kW
380/220V	60.0	48.0	65.0	52.0

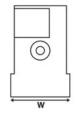
Voltage 60 Hz	Prime		Standby	
	kVA	kW	kVA	kW
220/127V	68.8	55.0	75.0	60.0
208/120V	68.8	55.0	75.0	60.0

Weights & Dimensions

Weights: kg (lb)		
Net (+ lube oil)	811 (1788)	
Wet (+ lube oil & coolant)	823 (1814)	
Fuel, lube oil & coolant	946 (2085)	

Dimensions: mm (in)		
Length	1680 (66.1)	
Width	760 (29.9)	
Height	1333 (52.5)	





Note: General configuration not to be used for installation. See general dimension drawings for detail.

Definitions

Standby Rating

These ratings are applicable for supplying continuous electrical power (at variable load) in the event of a utility power failure. No overload is permitted on these ratings. The alternator on this model is peak continuous rated (as defined in ISO 8528-3).

Prime Rating

These ratings are applicable for supplying continuous electrical power (at variable load) in lieu of commercially purchased power. There is no limitation to the annual hours of operation and this model can supply 10% overload power for 1 hour in 12 hours.

Standard Reference Conditions

Note: Standard reference conditions 25°C (77°F) air inlet temp, 100m (328ft) A.S.L. 30% relative humidity. Fuel consumption data at full load with diesel fuel with specific gravity of 0.85 and conforming to BS2869: 1998, Class A2.

General Data

Documents

A full set of operation and maintenance manuals and circuit wiring diagrams.

Quality Standards

The equipment meets the following standards: BS5000, ISO 8528, ISO 3046, IEC 60034, NEMA MG-1.22.

Warranty

All prime equipment carries a one year manufacturer's warranty. Standby equipment, limited to 500 running hours per year, has a two year manufacturer's warranty. For details on warranty cover please contact your local Dealer, or visit our website: www.OlympianPower.com.