

GPU HOBART 90/60 G 20 P



Le groupe électrogène décrit dans ce manuel est un modèle de GPU entraîné par un moteur diesel.

Il est fabriqué par HOBART sous la référence 90 G 20 P.

Sa fonction est de produire et de distribuer une puissance électrique régulée, 400Hz a un avion en stationnement pour faire fonctionner les équipements électrique de l'avion quand les génératrices de bord sont arrêtées.

	T MODEL FOR TRACTOR MTD.	F MODEL FOR SELF CONTAINED	T MODEL FOR TRUCK MTD.	P MODEL FOR TRAILER MTD.
PHYSICAL				
Length (approx.)	82 inches (2083 mm)	91 inches (2311 mm)	221 inches (5614 mm)	99 inches (2515 mm)
Width (approx.)	36 inches (914 mm)	40 inches (1016 mm)	88 inches (2236 mm)	78 inches (1981 mm)
Height (approx.)	43 inches (1092 mm)	51 inches (1295 mm)	80 inches (2032 mm)	73 inches (1854 mm)
Weight (90 kVA approx.)	4360 lbs. (1979 kg.)	4940 lbs. (2242.3 kg.)	9500 lbs. (4312 kg.)	5740 lbs. (2605.4 kg.)
Weight (60 kVA approx.)	4070 lbs. (1847.4 kg)	4740 lbs. (2151.5 kg)	9200 lbs. (4175.9 kg)	5530 lbs. (2510 kg)
GENERATOR CAPABILITIES		S-5359C (90 kVA)		S-5384C (60 kVA)
Output power rating	90 kVA		60 kVA	
Output voltage	115/200 V AC		SAME	
Rated load capacity	260 A		173 A	
Frequency (cycles-per-second)	400 Hz		SAME	
Output kilowatts	72 KW		48 KW	
Power factor	0.8 PF		SAME	
Duty cycle	100%		SAME	
Operating speed	2000 RPM		SAME	
Overload capacity (125% rated load)	325 A		216 A	
Output cable size	2/0		SAME	
GENERATOR PROTECTIVE SYSTEM				
Overvoltage relay	Trips 130 V to 134 V; resets 125 V			
Undervoltage relay	Trips 93 V to 102 V; resets 110 V			
Overfrequency relay	Trips 415 Hz to 425 Hz; resets 410 Hz			
Underfrequency relay	Trips 375 Hz to 385 Hz; resets 385 Hz			
Undervoltage time delay	4 to 12 seconds depending upon adjustment			
Overload relay	Trips at 125% rated load in less than 5 minutes			
ENGINE				
Manufacturer	Detroit Diesel Allison Division, General Motors Corporation			
Model (modified)	1043-5000 (4-71N)		1033-5000 (3-71N)	

	S5359C (90 kVA)	S5384C (60 kVA)
ENGINE (Continued)		
Type	Diesel (4-71N)	Diesel (3-71N)
Number of cylinders	4	3
Bore	4.25 in. (108 mm)	SAME SAME
Stroke	5.00 in. (127.0 mm)	SAME SAME
Displacement	284 cu. in. (4653.9 cc)	213 cu. in. (3491.1 cc)
Compression ratio (nominal)	18.71 to 1	17 to 1
Firing order (R. H. rotation)	1-3-4-2	1-3-2
Number of main bearings	5	4
Horsepower (at 2000 RPM)	148 HP	106 HP
Governed speed	2000 RPM	SAME
Idle speed	900 + 25 RPM	SAME
Electrical system	12-V DC	SAME
Ground	NEGATIVE	SAME
Oil capacity (w/filter)	17 quarts (16.1 liters)	15 quarts (14.2 liters)
Oil capacity (w/o filter)	15 quarts (14.2 liters)	13 quarts (12.3 liters)
Coolant capacity (approx.)	9-1/2 gallons (35.97 liters)	8-1/2 gallons (32.18 liters)
STATIONARY UNIT		
Same as above except		
Battery	Two, 6 volt	SAME
Fuel tank capacity (approx.)	50 gallons (47.5 liters)	SAME
TRAILER (See Manual in Chapter 5 when applicable)		