



Output Ratings

Generating Set Model	HPS 20	HPS 22E
380 – 415V , 50 HZ	20.0 KVA 16.0 KW	22.0 KVA 17.6 KW
220 / 127V , 60 HZ	22.5 KVA 18.0 KW	25.0 KVA 20.0 KW

*Ratings at 0.8 Power Factor

Prime Power – Model HPL 20: 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.

Standby Power – Model HPL 22E: These ratings are applicable for supplying continuous electrical power (at variable load) in the event of utility power failure. No overload is permitted on these ratings. The alternator on this model is peak continuous rated (as defined in ISO8528-3)

Technical Data

Engine Model	Perkins 404D-22G	
Alternator Model	Stamford BCI 184E	
Number Of Cylinders	4 in line	
Cubic Capacity: Liters (cu.in)	2.2 (135.2)	
Bore/Stroke: mm (in)	84 (3.3) / 100 (3.9)	
Compression ratio	23.3:1	
Aspiration	Natural	
Frequency	50 HZ	60 HZ
Engine Speed	1500 RPM	1800 RPM
Gross Engine Power: KW(hp)	20.6(28)	24.3 (33)
BMEP: KPA (psi)	743 (107.8)	731 (106)
Piston Speed: m/sec (ft/sec)	5.0 (16.4)	6.0 (19.7)
Fuel Tank Capacity: Liters (US Gal)	45 (11.9)	45 (11.9)
Fuel Consumption, HPS 20 : 1/hr (USg/hr)	5.4 (1.4)	6.1 (1.6)
Fuel Consumption, HPS 22E : 1/hr (USg/hr)	6.1 (1.6)	6.9 (1.8)
Heat Rejection to Exhaust System : KW (Btu/min)	16.2 (921)	18.5 (1052)
Heat rejection to Cooling System: KW (Btu/min)	19.4 (1103)	22.2 (1262)
Total Radiated Heat: KW (Btu/min)	6.7 (381)	7.9 (449)
Exhaust Temperature: ° C (° F)	505 (941)	510 (950)
Radiator Cooling Air Flow: m3/min (cfm)	30 (1059)	39 (1377)
Combustion Air Flow: m3/min (cfm)	1.4 (49)	1.7 (60)
Exhaust Gas Flow: m3/min (cfm)	3.9 (139)	4.8 (168)

Dimensions and Weights

Length: cm	Width: cm	Height: cm	Weight: kg
140	52	128	475

*Generating set pictured may include optional accessories



HPS 20-22E

Note: Standard reference conditions 25 ° C (77 ° F) Air Intel Temp, 152.4m (500ft) A.S.L 60% relative humidity. All engine performance data based on the above mentioned maximum continuous ratings. Fuel consumption data at full load with diesel fuel with specific gravity of 0.85 and conforming to BS2869: 1998, Class A2