



Output Ratings

Generating Set Model	HPS100	HPS110E
380 – 415V , 50 HZ	100.0 KVA 80.0 KW	110.0 KVA 88.0 KW
480V , 60 HZ	113.0 KVA 90.4 KW	125.0 KVA 100.0 KW

*Ratings at 0.8 Power Factor

Prime Power – Model HPS 100: These ratings are applicable for supplying continuous electrical power (at variable load) in Lieu of Commercially purchased power. This model can supply 10% overload power for 1 hour in 12 hours.

Standby Power – Model HPS 110E: 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 ISO8528-3)

Technical Data

Engine Model	Perkins 1104C-44TAG2	
Alternator Model	Stamford UCI 274C	
Number Of Cylinders	4 in line	
Displacement: Liters (cu.in)	4.4 (268.5)	
Bore/Stroke: mm (in)	105.0 (4.1) / 127.0 (5.0)	
Compression ratio	18.3:1	
Induction	Turbocharged	
Frequency	50 HZ	60 HZ
Engine Speed	1500 RPM	1800 RPM
Gross Engine Power: KW(hp)	103.0 (138.0)	117.5 (158.0)
BMEP: KPA (psi)	1873.0 (271.7)	1781.0 (258.3)
Piston Speed: m/sec (ft/sec)	6.4 (20.8)	7.6 (24.9)
Fuel Tank Capacity: Liters (US Gal)	227 (60.0)	227 (60.0)
Fuel Consumption: HPS 100 : 1/hr (USG/hr)	21.9 (5.8)	26.3 (6.9)
Fuel Consumption: HPS 110E : 1/hr (USG/hr)	24.1 (6.4)	29.3 (7.7)
Heat Rejection to Exhaust System : KW (Btu/min)	78.9 (4487)	97.3 (5533)
Heat rejection to Water & Lube Oil: KW (Btu/min)	50.7 (2883)	62.5 (3554)
Heat Radiated to Room\ : KW (Btu/min)	7.5 (427)	9.2 (523)
Exhaust Temperature: ° C (° F)	543 (1009)	574 (1065)
Radiator Cooling Air Flow: m3/min (cfm)	187.8 (6632)	244.2 (8624)
Combustion Air Flow: m3/min (cfm)	6.3 (221)	7.8 (275)
Exhaust Gas Flow: m3/min (cfm)	16.3 (576)	20.4 (720)

Dimensions and Weights

Length: cm	Width: cm	Height: cm	Weight: kg
210	73	127	1127

*Generating set pictured may include optional accessories



HPS 100-110E

Note: Standard reference conditions 27 ° C (80 ° 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