



Output Ratings

Generating Set Model	HPS45	HPS50E
380 – 415V , 50 HZ	45.0 KVA 36.0 KW	50.0 KVA 40.0 KW
480V , 60 HZ	50.0 KVA 40.0 KW	56.3 KVA 45.0 KW

*Ratings at 0.8 Power Factor

Prime Power – Model HPS45: 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 50E: 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 1103A-33TG1	
Alternator Model	Stamford UCI 224C	
Number Of Cylinders	3 in line	
Displacement: Liters (cu.in)	3.3 (201.4)	
Bore/Stroke: mm (in)	105.0 (4.1) / 127.0 (5.0)	
Compression ratio	17.25:1	
Induction	Turbocharged	
Frequency	50 HZ	60 HZ
Engine Speed	1500 RPM	1800 RPM
Gross Engine Power: KW(hp)	46.4 (62.0)	55.6 (75.0)
BMEP: KPA (psi)	1125.0 (163.2)	1124.0 (163.0)
Piston Speed: m/sec (ft/sec)	6.4 (20.8)	7.6 (25.0)
Fuel Tank Capacity: Liters (US Gal)	175 (46.2)	175 (46.2)
Fuel Consumption: HPS 45 : 1/hr (USG/hr)	10.6 (2.8)	11.9 (3.1)
Fuel Consumption: HPS 50E : 1/hr (USG/hr)	11.9 (3.1)	13.5 (3.6)
Heat Rejection to Exhaust System : KW (Btu/min)	35.8 (2036)	41.8 (2377)
Heat rejection to Water & Lube Oil: KW (Btu/min)	30.6 (1740)	33.1 (1882)
Heat Radiated to Room\ : KW (Btu/min)	14.0 (796)	15.3 (870)
Exhaust Gas Temperature: ° C (° F)	540 (1004)	553 (1027)
Radiator Cooling Air Flow: m3/min (cfm)	86.4 (3051)	105.6 (3729)
Combustion Air Flow: m3/min (cfm)	2.8 (99)	3.4 (120)
Exhaust Gas Flow: m3/min (cfm)	7.7 (272)	9.6 (339)

Dimensions and Weights

Length: cm	Width: cm	Height: cm	Weight: kg
202	73	124	910

*Generating set pictured may include optional accessories



HPS 45-50E

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