



### Output Ratings

Generating Set Model	HPS 800	HPS 900E
380 – 415V , 50 HZ	800.0 KVA 640.0 KW	900.0 KVA 720.0 KW
480V , 60 HZ	835.0 KVA 668.0 KW	938.0 KVA 750.4 KW

\*Ratings at 0.8 Power Factor

**Prime Power – Model HPS 800:** 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 900E:** 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 4006TAG3A	
Alternator Model	Stamford HCI 634G	
Number Of Cylinders	6 in line	
Displacement: Liters (cu.in)	22.9 (1398.7)	
Bore/Stroke: mm (in)	160 (6.3) / 190 (7.5)	
Compression ratio	13.6:1	
Induction	Turbocharged, AA Charge Cooled	
Frequency	50 HZ	60 HZ
Engine Speed	1500 RPM	1800 RPM
Gross Engine Power: KW(hp)	789 (1054)	839.0 (1125)
BMEP: KPA (psi)	2743 (397.9)	2440.0 (353.9)
Piston Speed: m/sec (ft/sec)	9.50 (31.2)	11.4 (37.4)
Fuel Tank Capacity: Liters (US Gal)	1494 (394.7)	1494 (394.7)
Fuel Consumption: HPS 800 : 1/hr (USG/hr)	163 (43.1)	188.3 (49.7)
Fuel Consumption: HPS 900E : 1/hr (USG/hr)	183.5 (48.5)	211.9 (56)
Heat Rejection to Exhaust System : KW (Btu/min)	515.0 (29288)	698.0 (39695)
Heat rejection to Water & Lube Oil: KW (Btu/min)	300.0 (17061)	320.0 (18198)
Heat Radiated to Room\ : KW (Btu/min)	97.1 (5522)	106.0 (6028)
Exhaust Temperature: ° C ( ° F)	500 (932)	500 (932)
Radiator Cooling Air Flow: m3/min (cfm)	1134 (40047)	1326 (46827)
Combustion Air Flow: m3/min (cfm)	73.0 (2578)	78.0 (2755)
Exhaust Gas Flow: m3/min  (cfm)	193.0 (6816)	209.0 (7381)

### Dimensions and Weights

Length: mm(in)	Width: mm(in)	Height: mm(in)	Dry: kg (lb)	Wet: kg(lb)
4280 (168.5)	1912 (75.3)	2277 (89.6)	6059 (13799)	6370(14043)

\*Generating set pictured may include optional accessories



## HPS 800-900E

**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