



Hashem Power Solutions

Diesel , Petrol , Solar and Wind Generators

Output Ratings

Generating Set Model	HPS 450	HPS 500E
380 – 415V , 50 HZ	450.0 KVA 360.0 KW	500.0 KVA 400.0 KW

*Ratings at 0.8 Power Factor

Prime Power – Model HPS 450: 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 500E: 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 2506A-E15TAG1
Alternator Model	Stamford HCI 544C
Number Of Cylinders/Alignment	6 in line
Cubic Capacity: Liters (cu.in)	15.2 (927.6)
Bore/Stoke: mm (in)	135.0 (5.3) / 167.0 (6.6)
Compression ratio	16.0:1
Induction	Turbocharged, Air To Air Charge Cooled
Frequency	50 HZ
Engine Speed	1500 RPM
Gross Engine Power: KW(hp)	443.0 (594.0)
BMEP: KPA (psi)	2471.0 (358.4)
Piston Speed: m/sec (ft/sec)	8.0 (26.2)
Fuel Tank Capacity: Liters (US Gal)	928 (245.2)
Fuel Consumption: HPS 450 : 1/hr (USG/hr)	88.8 (23.5)
Fuel Consumption: HPS 500E : 1/hr (USG/hr)	98.6 (26.0)
Heat Rejection to Exhaust System : KW (Btu/min)	355.0 (20188)
Heat rejection to Water & Lube Oil: KW (Btu/min)	157.0 (8928)
Heat Radiated to Room: KW (Btu/min)	47.0 (2673)
Exhaust Temperature: °C (°F)	514 (957)
Radiator Cooling Air Flow: m3/min (cfm)	660.0 (23308)
Combustion Air Flow: m3/min (cfm)	30.5 (1077)
Exhaust Gas Flow: m3/min (cfm)	81.0 (2860)

Dimensions and Weights

Length: mm (in)	Width: mm (in)	Height: mm (in)	Dry: kg (lb)	Wet: kg (lb)
3700 (145.7)	1100 (43.3)	2143 (84.4)	3793 (8362)	3831 (8446)

*Generating set pictured may include optional accessories



HPS 450-500E

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