



Hashem Power Solutions

Diesel , Petrol , Solar and Wind Generators

Output Ratings

Generating Set Model	HPS400	HPS450E
380 – 415V , 50 HZ	400.0 KVA 320.0 KW	450.0 KVA 360.0 KW
480V , 60 HZ	438.0 KVA 350.4KW	500.0 KVA 400.0 KW

*Ratings at 0.8 Power Factor

Prime Power – Model HPS 400: 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 450E: 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 2206A-E13TAG3	
Alternator Model	Stamford HCI 444F	
Number Of Cylinders/Alignment	6in line	
Displacement: Liters (cu.in)	12.5 (762.8)	
Bore/Stroke: mm (in)	130 (5.1) / 157 (6.2)	
Compression ratio	16.3:1	
Induction	Turbocharged Air To Air Charge Cooled	
Frequency	50 HZ	60 HZ
Engine Speed	1500 RPM	1800 RPM
Gross Engine Power: KW(hp)	412.5 (553.0)	460.7 (618.0)
BMEP: KPA (psi)	2639.0 (382.8)	2457.0 (356.3)
Piston Speed: m/sec (ft/sec)	7.9 (25.9)	9.4 (30.8)
Fuel Tank Capacity: Liters (US Gal)	867 (229.0)	867 (229.0)
Fuel Consumption: HPS 400 : 1/hr (USG/hr)	81.6 (21.6)	92.8 (24.5)
Fuel Consumption: HPS 450E : 1/hr (USG/hr)	90.1 (23.8)	102.8 (27.2)
Heat Rejection to Exhaust System : KW (Btu/min)	290.4 (16515)	338.3 (19239)
Heat rejection to Water & Lube Oil: KW (Btu/min)	139.9 (7956)	162.2 (9224)
Heat Radiated to Room\ : KW (Btu/min)	40.0 (2275)	65.8 (3742)
Exhaust Temperature: ° C (° F)	630 (1166)	660 (1220)
Radiator Cooling Air Flow: m3/min (cfm) Cooling system designed to operate in ambient conditions up to 50 ° C (122 ° F)	599.4 (21168)	742.8 (26232)
Combustion Air Flow: m3/min (cfm)	26.4 (932)	29.0 (1024)
Exhaust Gas Flow: m3/min (cfm)	72.5 (2560)	73.5 (2596)

Dimensions and Weights

Length: cm	Width: cm	Height: cm	Weight: kg
325	112	207	3503



HPS 400-450E

*Generating set pictured may include optional accessories