



Hashem Power Solutions

Diesel , Petrol , Solar and Wind Generators

Output Ratings

Generating Set Model	HPS 27	HPS30E
380 – 415V , 50 HZ	27.0 KVA 21.6 KW	30.0 KVA 24.0 KW
220 / 127V , 60 HZ	30.0 KVA 24.0 KW	34.0 KVA 27.2 KW

*Ratings at 0.8 Power Factor

Prime Power – Model HPL 27: 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 HPL 30E: 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-33G1	
Alternator Model	Stamford BCI 184F	
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	19.25:1	
Induction	Natural	
Frequency	50 HZ	60 HZ
Engine Speed	1500 RPM	1800 RPM
Gross Engine Power: KW(hp)	31.0 (42.0)	36.5 (49.0)
BMEP: KPA (psi)	752.0 (109.0)	738.0 (107.0)
Piston Speed: m/sec (ft/sec)	6.4 (20.8)	7.6 (25.0)
Fuel Tank Capacity: Liters (US Gal)	144 (38.0)	144 (38.0)
Fuel Consumption, HPS 27 : 1/hr (USg/hr)	6.2 (1.6)	7.2 (1.9)
Fuel Consumption, HPS 30E : 1/hr (USg/hr)	6.9 (1.8)	8.1 (2.1)
Heat Rejection to Exhaust System : KW (Btu/min)	22.3 (1268)	30.1 (1712)
Heat rejection to Water & Lube Oil: KW (Btu/min)	13.8 (785)	19.4 (1103)
Heat Radiated to Room\ : KW (Btu/min)	8.6 (489)	8.8 (500)
Exhaust Gas Temperature: ° C (° F)	472 (882)	501 (934)
Radiator Cooling Air Flow: m3/min (cfm)	69.6 (2458)	90.6 (3200)
Combustion Air Flow: m3/min (cfm)	2.5 (88)	2.9 (102)
Exhaust Gas Flow: m3/min (cfm)	5.2 (184)	6.3 (222)

Dimensions and Weights

Length: cm	Width: cm	Height: cm	Weight: kg
165	73	124	800

*Generating set pictured may include optional accessories



HPS 27 – 30E

Note: Standard reference conditions 25 ° C (77 ° 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