



PE/PS 500
500kVA @ 50Hz

Powered By: 

Generating Set Performance			
RATING		PRIME POWER	STAND-BY POWER
Rated output	kVA	500	550
Active power output	kW	400	440
Power factor	Cos ϕ	0.8	
Rated speed	r.p.m	1500	
Standard voltage	V	400	
Voltage available	V	400/230	

Rating in accordance with ISO 8528. In case the genset is operating above 25 °C and 100m altitude, power de-rating has to be done.

Prime Power:
The Prime power is the maximum power available with varying loads for an unlimited no. of hours. The average power output during 24 hours period of operation must not exceed 80% of rated power at stated environmental conditions.

Stand-By Power:
The Stand-By power is the maximum power available for a period of 500 hours per year at stated environmental conditions.

Fuel Consumption:	@50% Load	@75% Load	@100% Load
litres / Hour	55.00	81.00	106.00

Prime Mover Performance			
Make		Perkins , U.K	
Model		2506C E15 TAG 2	
Rated output	kW	478.0	
Speed	r.p.m	1500	
Type		6 Cylinder, radiator cooled	
Total displacement	L	15.2	
Aspiration		Turbocharged aftercooled	
Speed governor		Electronic	

Synchronous Generator			
Make		Marelli Motori, Italy	
Model		MJB 355 SA4	
Rated Power	kVA	510	
Poles	No.	4	
Insulation	Class	H	
Degree of protection		IP 23	
Excitation system		Self excited	
Voltage regulator		Automatic voltage regulator	
Bearing	Type	Single	

Control Panel

Manual keystack control panel with digital module programmed with following:

Features:	Shutdown Protections:
1. Ammeters	1. High water temperature
2. Voltmeter	2. Low oil pressure
3. Frequency meter	3. Over & under speed
4. Hour meter	4. Low fuel level
5. Emergency push button	5. Overload

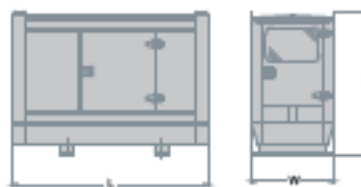
Generating Set Installation Data

Exhaust System		
Max exhaust temp. at full load	°C	550
Exhaust gas flow	m ³ /min	94
Heat rejected to exhaust	Kcal/Kwh	406
Max allowed back pressure	kPa	6.8
Electrical Starting System		
Auxillary voltage	V	24
Min. recommended battery	Ah	2 X 128
Starting motor output	kW	7.5
Baseframe		
The above are mounted on a vibration isolated M.S sheet fabricated base frame with built in fuel tank of capacity of 850 litres. Crane lifting hooks provided.		

Generating set Dimension & Weight

		Openskid	Silenced
Length	mm	3700	5200
Width	mm	1200	1550
Height	mm	2200	2370
Dry weight	Kg	3900	5400
Noise Emission Levels (Silenced Units)			
Sound power level	dB (A)	97*	
Sound pressure level	dB (A)	68*	

Note: * +3dB



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