



PI Model	Hz/rpm	Voltage	Prime	Standby
PI1825C	50/1500	400/230	1320 kWe 1650 kVA	1460 kWe 1825 kVA
N/A	60/1800	380/220	N/A	N/A

Applicable Standard and References: ISO 8528-1; ISO 3046-1; BS 5514-1
The above given ratings are at 0.8 power factor (PF)

Engine Technical Data				Alternator Technical Data			
Engine Make & Model		Cummins QSK50-G7		Alternator Make & Model		Stamford PI734E	
No. of Cylinders		16, Vee Shape		No. of Poles		4	
Cycle		4		WINDING LEADS		12	
Aspiration		Turbocharged & Aftercooled		No. of Bearings		Single	
Cooling Method		Water		Insulation Class		Class H	
Governing Type		Electronic		Winding Pitch		TWO THIRDS	
Governing Class		ISO 8528 Part 1 G3		Ingress Protection Rating		IP-23	
Compression Ratio		15.0 : 1		Excitation System		Separately Excited by PMG	
Displacement (L)		50.3		AVR Model		MX341	
Bore/Stroke (mm)		159/159		Alternator operating Data		50Hz 60Hz	
Battery Charger, Ampere		24 Volts DC,55 Amp		Overspeed (RPM)		2250	
Air System		50Hz 60Hz		Voltage Regulation		± 1.0 %	
Air Filter Type		Dry Element (replaceable)		Telephone Interference (TIF)		<50	
Combustion Air Flow m ³ /min (cfm)	Standby	119.8 (4234)	N/A	Telephone Interference (THF)		<2%	
	Prime	111.6 (3944)	N/A	Wave Form Distortion		NL < 1.5% NON-DISTORT. BAL LD < 3.0%	
Radiator Air Flow m ³ /min (cfm)		TBD		Radio Interference		Standard EN61000-6-2:2001	
Cooling System		50Hz 60Hz		Cooling Air Flow m ³ /sec(cfm)		3.4 (7300) N/A	
Total Coolant capacity (L)		140.1		Controller Technical Data			
Water Pump Type		Dry Element (replaceable)		Controller Make & Model		DSE 6120 or Eq.	
Radiator Fan Load kW (hp)		40 N/A		Operation mode		Auto Main Failure (AMF)	
Heat Radiation to Room kW (BTU/min)	Standby	153 (8693)	173 (9859)	Display		Graphic back-lit LCD	
	Prime	137 (7793)	158 (8968)	Ingress Protection Rating		Sealed front face(IP65)	
Lubrication system				Binary Inputs/Outputs		4 / 6	
Oil Filter Type		Spin on full flow filter		Analog inputs		4	
Total Oil Capacity I (US gal)		204.4 (54)		Measurement		Vac, A, Hz, kVA, kVAR, kW, Vdc	
Oil Pan I (US gal)		174.1 (46)		Event Log		Alarms log, Hours log	
Oil Type		API CH4/CI4; SAE 15W-40		Communication (Optional)		USB, RS232, RS485	
Cooling Method		Water		Gen-set Enclosure Specification (optional)			
Fuel System		50Hz 60Hz		Enclosure Type		Acoustic and Weather Proof	
Fuel Filter Type		Spin on fuel filters with water separator		Anticorrosive Protection		Polyester Powder Coated Galvanized Sheet	
Recommended Fuel		Class A2 Diesel		Ingress Protection rating		Weather Proof IP23	
Fuel Consumption: l/hr (US gal/hr)		Prime	Standby	Prime	Standby	Transportation	
	110%	394 (104)	N.A.	N/A	N/A	ISO standard lifting	
	100%	349 (92.0)	394 (104)	N/A	N/A	Noise level	
	75%	265 (70.0)	N.A.	N/A	N/A	Emergency	
	50%	189 (50.0)	N.A.	N/A	N/A	External Emergency Push Button	
Exhaust System		50Hz 60Hz		Canopy RAL color		RAL 2000	
Silencer Size & Model		(2*10") Industrial		Chassis RAL color		RAL 9011	
Silencer Noise Reduction Level		11-15 dBA		Dimensions		Open Type Enclosure	
Max. Back Pressure kPa (in. Hg)		6.8 (2.0)		Length (mm)		6000 11500	
Exhaust Gas Flow L/s (cfm)	Standby	4991 (10576)		Width (mm)		2750 2820	
	Prime	4564 (9671)		Height (mm)		3600 4000	
Exhaust Gas Temperature °C (°F)	Standby	498 (928)		Weight (kg)		15400 26900	
	Prime	487 (893)		Fuel Tank Capacity (L)		N/A N/A	

- Notes:
- 1- Prime Power is applicable for supplying power to varying electrical load for unlimited hours. Prime Power (PRP) is in accordance with ISO 8528.Ten percent overload capability is available in accordance with ISO 3046, AS 2789, DIN 6271 and BS 5514.
 - 2-Standby power is applicable for supplying power to varying electrical load for the duration of power interruption of a reliable utility source. Emergency Standby Power (ESP) is in accordance with ISO 8528. Fuel Stop power in accordance with ISO 3046, AS 2789, DIN 6271 and BS 5514.
 - 3- Warranty: one year or (1000) hours which comes first.
 - 4- Referring to our company policy of continuous development, PI reserves the right to change specification without notice.

N.A. - Not Available
N/A - Not Applicable to this Engine
TBD - To Be Determined