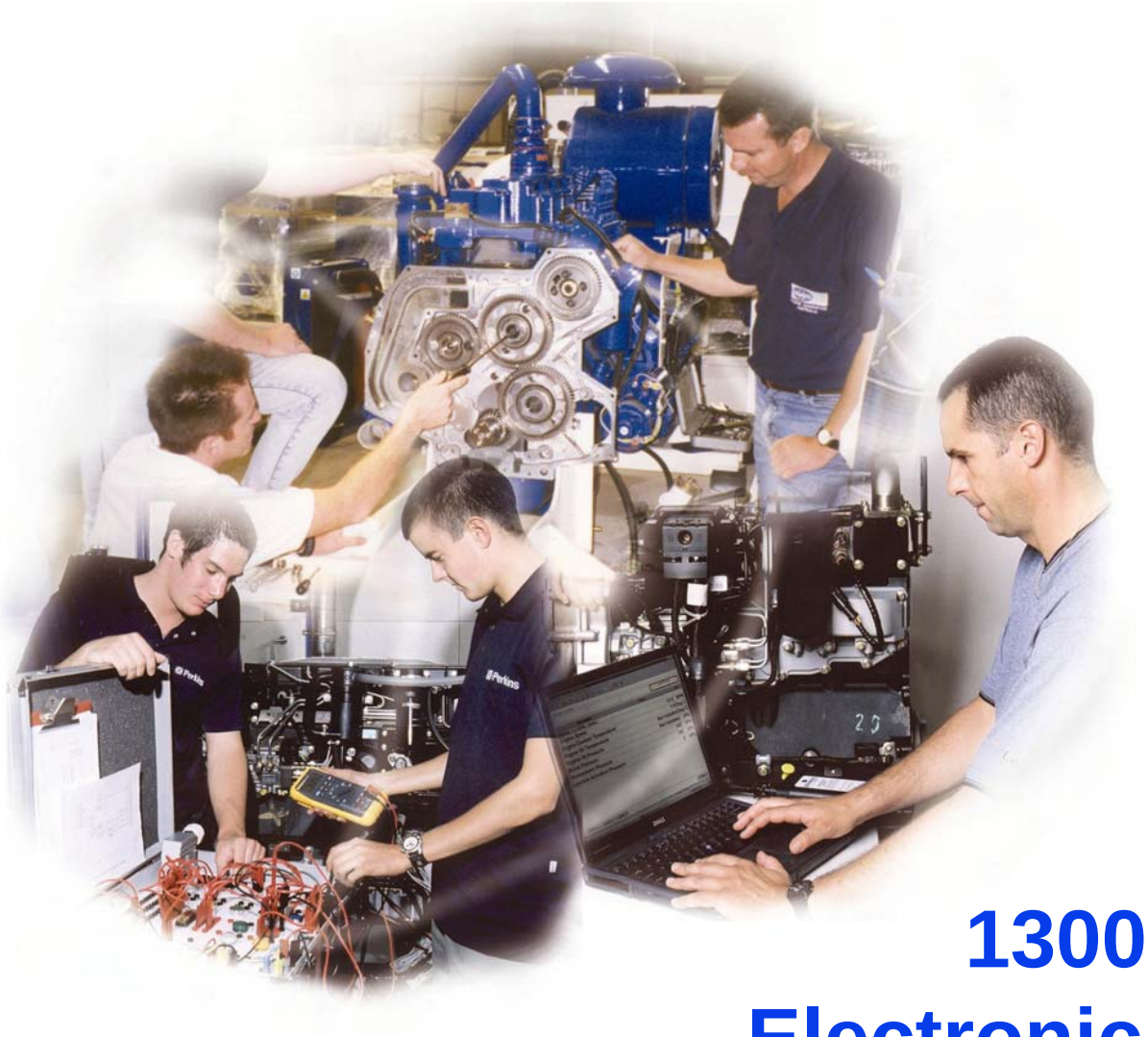


Perkins Product Training

1300 Edi Series Electronic Engine Training

@Perkins

Please Note:

- The Product Training information is distributed for informational purposes only. It is not to be construed as creating or becoming part of Perkins Engines contractual or warranty obligations.

- The appropriate service literature and ‘Service Bulletins’ available on **www.perkins.com** should always be the final authority and source of information.

- Electrical Circuits, connections and termination points may change, make sure you have the correct drawings.

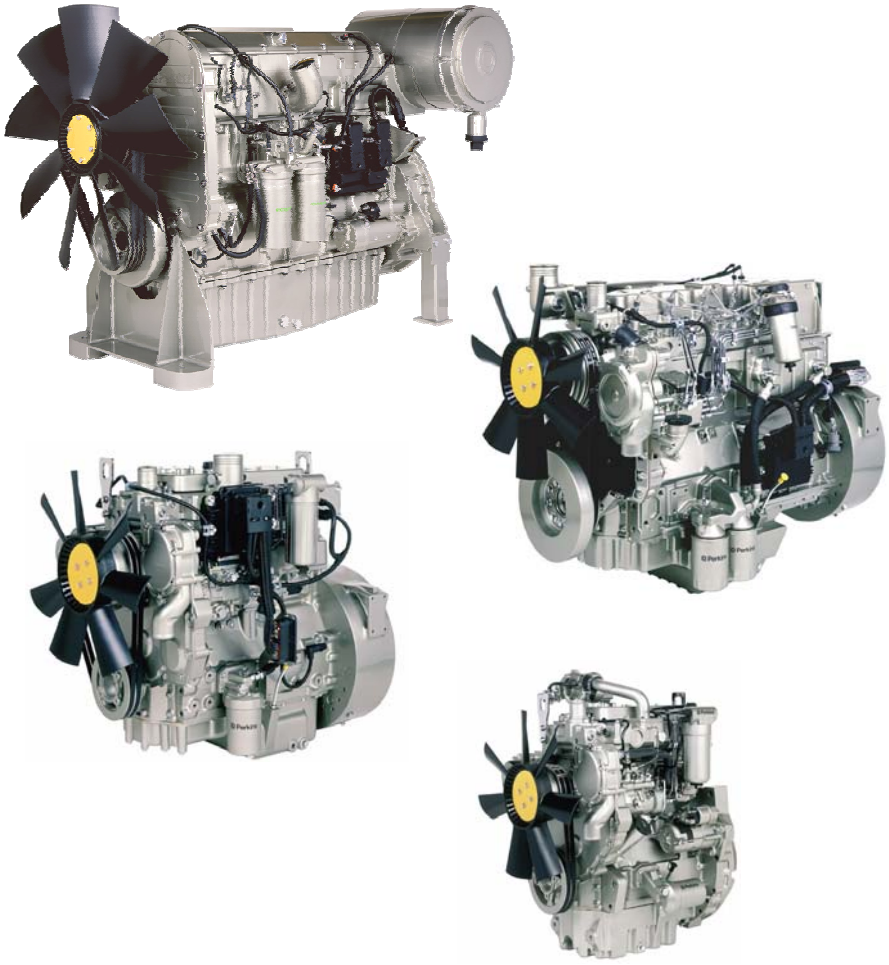
‘Off Road’ Emissions Legislation

Tier 0
"A" rated engines can be used in regions without Emissions Legislation.

Tier 1
"B" rated engines are suitable for regions with Tier 1/Stage I Emissions Legislation

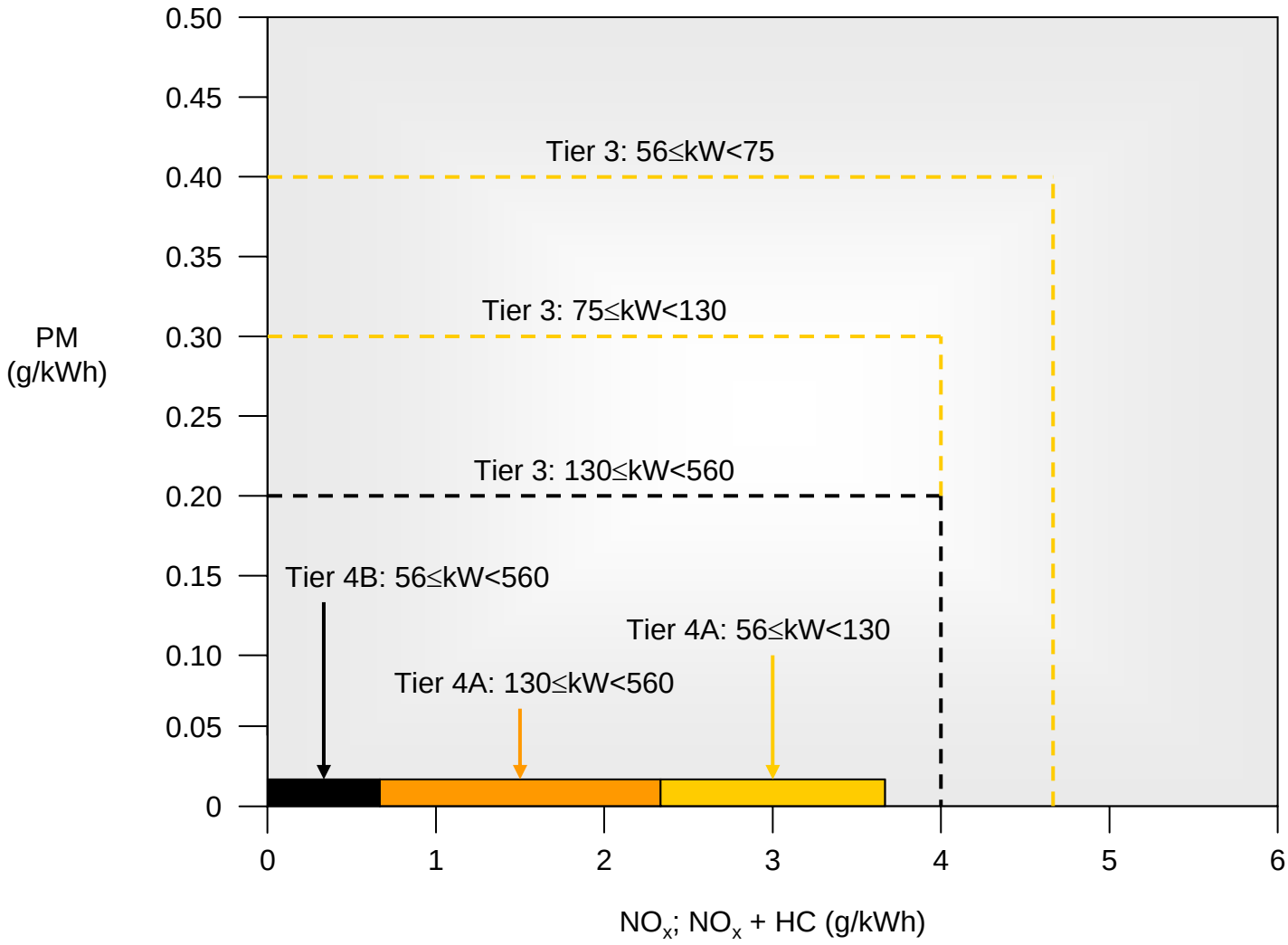
Tier 2
"C" rated engines are suitable for regions with Tier 2/Stage II Emissions Legislation.

Tier 3
"D" rated engines are suitable for regions with Tier 3/Stage III Emissions Legislation.



@Perkins

‘Off Road’ Industrial - Ever Cleaner Engines



1980’s

Particulate Matter (PM) 0.6g/kWh

Nitrous Oxide (NOx) 10.00g/kWh

@Perkins

Electronic Engine Benefits

Electronic Engine Management system gives:

- Improved Specific Fuel Consumption (SFC) through precise control of Injection Timing and Duration.
- Machine protection under extreme operating conditions.
- Easy servicing and fault diagnostics, Electronic Service Tool, (EST)
- Exceeds emissions legislation and has a lower noise level.
- Better engine ‘responsiveness’.
- Improved reliability,engine monitoring and protection.
- Further cost savings through integration into ‘Genset' design (CAN)
- Improved torque, different torque curves available, torque ‘shaping’
- Rating changes available, Base Load, Prime, Standby, 1500/1800
- Configuration files, gives the customer flexibility, droop, etc

Gen Set Power Selector Chart

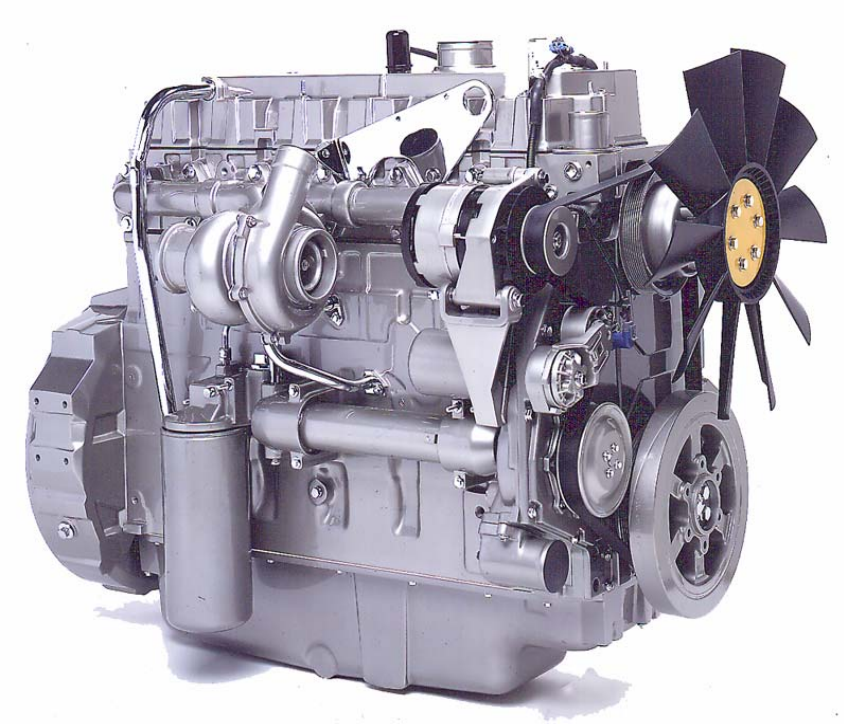
Model offering for Unregulated Territories

50Hz

Model	Net Engine Output			Typical Generator Efficiency	Typical Power Factor	Typical Generating Set Output						1500/1800 rev/min switchable
						Baseload		Prime		Standby		
	Baseload kWm	Prime kWm	Standby kWm	%		kWe	kVA	kWe	kVA	kWe	kVA	
1306C-E87TAG3	164	180	199	92	0.8	151	189	166	208	183	229	■
1306C-E87TAG4	179	198	217	92	0.8	165	205	182	228	200	250	■
1306C-E87TAG5	185	204	224	92	0.8	170	213	188	235	206	258	
1306C-E87TAG6	198	218	239	92	0.8	182	228	200	250	220	275	

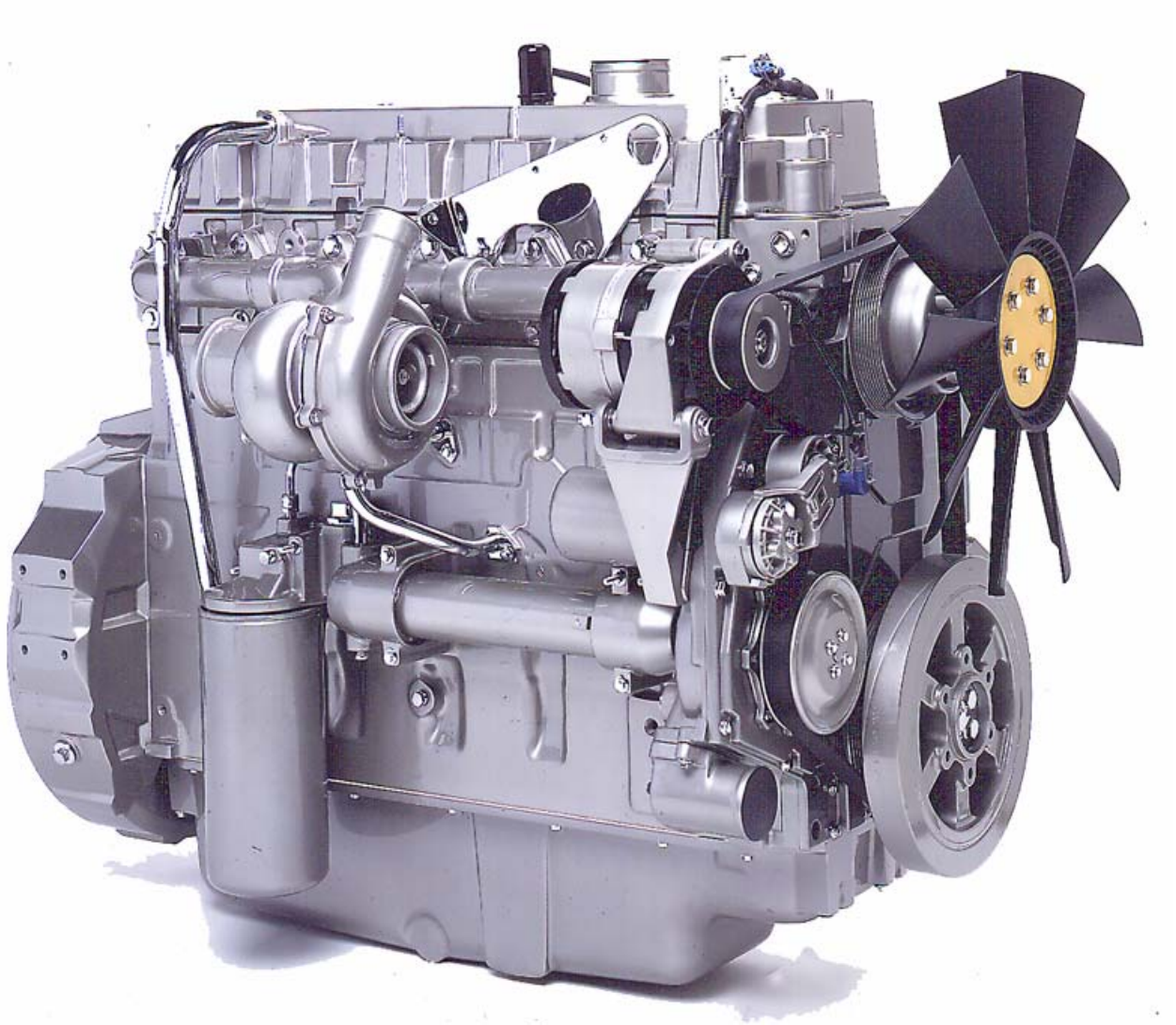
Never Forget it's A Diesel Engine

- Electronics gives control!
- It needs a good flow of ;
  Clean Air and Fuel.
- Also needs Compression!



@Perkins

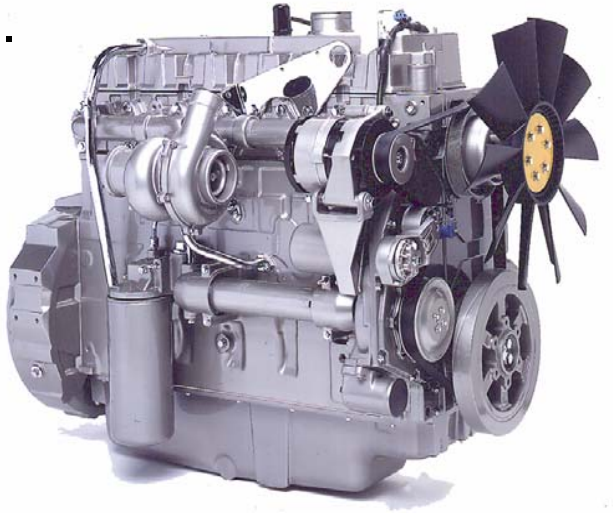
1300 Edi Series-Industrial Open Power Unit



@Perkins

1300 Edi Series-Industrial Open Power Unit

- **IOPU 1** -Variable Speed Droop, with analogue throttle and Idle validation switch. (mobile applications)
- **IOPU 2** - Variable Speed Isochronous with analogue hand throttle, (no IVS - non Mobile Applications)
- **IOPU 3** - Variable Set Speed Isochronous Control.
- **IOPU 4** - With Pre-Set Speed Isochronous Control.



- **12 Volt and 24 Volt ECM's available.**

If you are not sure of the voltage and markings have been removed check PIN 35 to ground 1.4K Ohms – 12 volts / 2.8K Ohms – 24 volts.

1300 Edi Series-Electropack