

discipline  
and  
quality  
are the first  
rules...



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# overview

Parsian Diesel, a generating unit company, was first founded in 1977 . After the great success achieved in Iran, the aim of the company shifted towards expanding worldwide. Maintaining good relation with their customers, Parsian Diesel guided their way into the wide market, to their ambitions and beliefs of becoming leaders in Iran and Mideast,

With a trend for growth and the greatest attention and professionalism, the company has been transformed from the family concern of the seventies into a modern managerial structure through the constant development of production capacity, innovation in the product line, office staff, highly specialized technicians, investment in surveys and research, professional consulting from sector experts for product improvement and perfection, and finally a wide and diverse range of gensets from 2 to 4000 KVA provided in order to satisfy the demands of increasingly existing markets... All these features make Parsian Diesel an ideal partner for safety and reliability.

## Mission

Our aim is to deliver Power through our reliable Generating Sets with maximum Safety and Excellence; thus reaching every target customer by providing the best in quality and price.

## Vision

Keeping the taps flowing towards an increasing growth of Power Generating Sets in every corner of the world.





# WHAT WE DO

We, at Parsian Diesel, design, manufacture and install a wide range of our own products, but we are also happy to manufacture as per our customers' designs on a sub-contract basis. When required, customers' equipments can be fitted at our work premises, saving on-site installation costs.

## Designing

The production process of the company starts with designing a Genset. We find that each customer has his own unique requirements. Meeting those requirements with an efficient and flexible service, an engineer is always geared up to propose approved drawings and to integrate any requested project. All design work is carried out using AutoCAD or other customized applications, enabling fast delivery of approved drawings via e-mail and full integration with nearly all widely known commercial CAD packages.

## Manufacturing

Characterized by the exclusiveness in assembling engines and manufacturing canopies, Control System for synchronization and load sharing... Therefore, a large factory team of skilled and experienced employees put their efforts to complete a sought project at highest international standards. Close liaison between the design engineer and the production team means total control over materials and workmanship.

## Installation

Where required, we can provide on-site installation carried out by experienced engineers. Our installation teams work to all relevant health and safety practices and are, of course, covered by public and employer liability insurance.

## our products

generating sets	Enclosures	Panels	Lighting Towers	Power Solutions
Engines	SPC & Containers	Control System	Engines	
Alternators	Flat Pack Canopies	ATS board	Alternators	
	Acoustic Room Isolation	synchronization Board	Power Solutions	

## Generating sets

Parsian Diesel Gensets have long been synonymous with reliability, the optimum solution for technical simplicity and robust construction. we are committed to provide our clients with quality products and services through well equipped and experienced suppliers such as Cummins, Perkins, Doosan, Caterpillar, Stamford, Le Roy Somer, Marathon... Top quality engines and alternators with service and assistance centers in every corner of the world wide contribute widely to the company by enhancing its quality standards and the good reputation of efficiency and effectiveness of Parsian Diesel products. A wide and diverse range of Gensets up to 4000KVA to satisfy the market demand and meet the most challenging customers' needs. Parsian Diesel Gensets have surpassed the most rigorous tests and demonstrated really a very high performance of price and quality competitiveness thus confirming the strength of the Parsian Diesel trademark all over the world.





## Enclosures

### Sound Proof Canopies / Containers

We offer high quality Acoustic Enclosures / Canopies which undergo rigorous quality control checks and are manufactured to the highest material specialty standards.



We at Parsian Diesel manufacture an acoustic enclosure with our innovative techniques and keeping in view the:

- . Adequate ventilation for Genset cooling air requirement.
- . Absorbent / insulating material used is fire radiant.
- . Suitable thermal lagging to avoid localized heating of adjoining part of exhaust.
- . Easy access to service points on Genset.
- . Avoid the transfer of vibration from Genset to enclosure and surrounding with the help of specially designed anti-vibration pads.
- . Robust and highly corrosion resistant construction:

the acoustic enclosure is designed with the help of CAD software. The enclosure can be tailor made as per the requirement and depending upon the capacity of D.G. Set. The enclosure is ideal for all locations of installation.

## Flat Pack Canopies

To provide our worldwide customer base with a compact, easy to transport product, Parsian Diesel has developed a range of self-assembly "FLAT PACK" Canopies.

The standard attenuation of this range is below 75 dba at 1 meter, and the units are supplied complete with Fuel Tank Base Frame, Fuel Gauge, Engine / Alternator Support Brackets, Anti Vibration Mountings and Battery Holder.

These units are ideal for the OEM with storage difficulties, who may not have the space for storing complete assembled canopies.

All Sound Proof Systems canopies are powder coated to withstand arduous weather conditions and supplied with assembly manuals showing component identification drawings, for ease of construction.



## Acoustic Room Isolation

By offering engineering, fabrication and installation of the absolute best noise reduction and noise control products available, our company has set the bar in the isolation industry.

We design, fabricate and install acoustical doors, wall and ceiling insulation, inlet/outlet attenuators, motorized fire/gravity dampers and residential mufflers for all kind of Diesel Gensets.

Parsian Diesel offers a comprehensive service in environmental noise studies, whether a simple measurement exercise or an investigation requiring involvement from initial planning stage to final completion of a major project. In such cases expert guidance will be given, it always helps to start with the design team at the very beginning so that we can have our say in the space planning and the design of the structure. We document design goals, mark-up preliminary drawings, and provide detail sketches. The mechanical system acoustical design guidelines are provided and the design is then reviewed for noise control based on the noise data sheet set by our main suppliers. Detailed calculations will establish the extend of any noise control measures required and advice may be given on possible changes of land use to minimize noise problems. Parsian Diesel engineering team will carry out checks upon completion to ensure that the noise criteria have been met.

The process makes our job of providing the sound isolation and noise control effortless. However, when the project requires it, we are never afraid of a challenge.



## Panels

### Control System Boards

Our company is engaged in the manufacturing of a wide range of Electronic AMF panels (Automatic Mains Failure) which are designed to provide emergency power in case of mains supply failure. The range of Automatic Mains Failure (AMF) Panels manufactured by us are potent & effective and thus solving various solutions of industries.

They operate in conjunction with an array of sensors and senders located on the engine, alternator and auxiliary systems, providing complete Genset control and monitoring. Furthermore, Electronic AMF Panels could be provided under Analogue or Digital Panel Boards.



### Synchronization and Load Sharing Boards

Aspiring to achieve the maximum customer satisfaction, we manufacture synchronization panel boards that are high on performance and most suitable method for growing electrical motor control, automation, and power distribution in a compact and economical package. Our team of qualified engineers, fabricators, technicians and other professionals make certain to abide by the manufacturing guidelines and standards. This helps us to assure complete safety to our end users.

#### Each Generator Cubicle contains the following:

- One cubicle 80 x 60 x 180
- Three poles circuit breaker
- One isochrones load sharer and auto synchronizer module
- PLC for load sharing (if required)
- Set of digital display for monitoring generator output Volts, Amps, Kw, Kvar, PF etc...
- Three current transformers
- Over current protection relay
- Reverse power protection relay
- Overload protection relay
- Loading and unloading generator circuit
- Lot of indicating lights, protection fuses, switches and control circuits required for generator set operation

### Lighting Towers

Lighting Tower floodlight towers have been engineered to meet the rugged demands of today's construction environment. Our units are designed for one maneuverability/operation and service.

In these cases and in many others it is useful to have an independent lighting, quickly movable and with easy startup, provided with a generating set for floodlights supply and also for other external users.



### Automatic Transfer Switcher

Parsian Diesel offers a broad range of automatic transfer switch products that are positioned to support virtually any type of emergency power application from simple, single ATS installations to highly complex multi-ATS/generator switchgear systems. Available in size ranging from 20 through 6300A, there is a Younes Bros switch to suit every project's needs.



## POWER SOLUTION

Parsian Diesel owes a lot of its success to that fact that we are keen to adopt a flexible approach to our product offering to ensure that our customer receives what he aims for. The Power Solutions team consists of Specialist Mechanical, Electrical Design Engineers, Support, Sales and project Engineers. They are highly qualified and experienced in providing solutions to often-complex power generation requirements of little or no precedence. The Power Solutions team has a very impressive Client List in a wide variety of Industries such as Telecoms, Rental, Retail, Health Care, Leisure, Agriculture, Manufacturing, Oil and Gas.

## ORIGINAL SPARE PARTS

Parsian Diesel spare parts concept is based on tailored solutions for our Customers. The degree of autonomy can be freely selected. Our competent contact persons and clear ordering documentation make it easier for your technical and maintenance personnel to obtain spare parts. Flexible production departments and security stocks in our stores guarantee short delivery times for all types of engines especially Cummins Genuine Spare Parts.



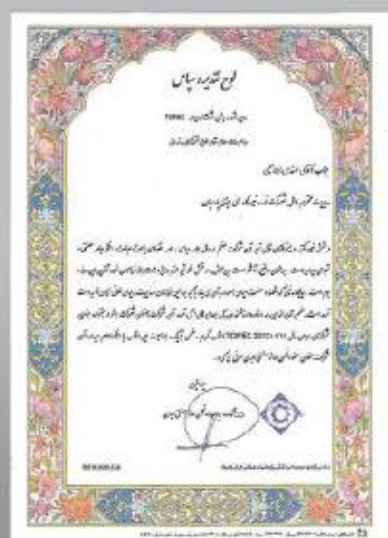
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[www.parsian-diesel.com](http://www.parsian-diesel.com)



# CERTIFICATES

**Parsian** Diesel Power Plant Development Co.





# DOOSAN

## DIESEL GENERATION



Model	Type		Displacement (liter)	Output (ISO 3046/8528)		Dimension (LxWxH) (mm)	Power Rating			
	No. of cyl	Aspiration		KW(PS)@1800RPM Standby / Prime	KW(PS)@1500RPM Standby / Prime		Standby KVA	KW	Prime KVA	KW
D858	L 6	NA	5.8	70 (95) / 64 (87)	59 (80) / 54 (73)	1,155 X 705 X 854				
D1146	L 6	NA	8.1	105 (143) / 96 (130)	85 (116) / 77 (105)	1,224 X 727 X 973				
D1146T	L 6	TC	8.1	138 (187) / 125 (170)	118 (160) / 107 (145)	1,277 X 824 X 1,074				
P068TI-1	L 6	TI	8.1	191 (260) / 174 (237)	164 (223) / 149 (203)	1,242 X 918 X 1,099.5				
P085TI	L 6	TI	8.1	223 (303) / 205 (279)	199 (270) / 177 (240)	1,242 X 918 X 1,100				
P126TI	L 6	TI	11.1	298 (405) / 278 (378)	272 (370) / 241 (328)	1,383 X 870 X 1,207				
P126TI11	L 6	TI	11.1	342 (465) / 307 (418)	294 (400) / 265 (360)	1,383 X 913 X 1,207				
P158LE-1	V 8	TI	14.6	402 (546) / 366 (498)	362 (492) / 327 (444)	1,484 X 1,389 X 1,162				
P158LE	V 8	TI	14.6	458 (623) / 402 (547)	414 (563) / 363 (494)	1,484 X 1,389 X 1,162				
P158LE-S	V 8	TI	14.6	481 (654) / 441 (600)	441 (600) / 402 (546)	1,484 X 1,389 X 1,162				
P158FE	V 8	TI	14.6	492 (669) / 441 (600)	441 (600) / 402 (546)	1,492 X 1,389 X 1,240				
P180LE-1	V 10	TI	18.3	498 (677) / 454 (617)	442 (600) / 403 (548)	1,557 X 1,389 X 1,248				
P180LE	V 10	TI	18.3	540 (734) / 497 (676)	496 (674) / 443 (602)	1,557 X 1,389 X 1,248				
P180LE-S	V 10	TI	18.3	567 (771) / 519 (705)	496 (674) / 452 (615)	1,557 X 1,389 X 1,248				
P180LE-S	V 10	TI	18.3	567 (771) / 519 (705)	496 (674) / 452 (615)	1,557 X 1,389 X 1,248				
P222LE	V 12	TI	21.9	649 (883) / 591 (803)	574 (781) / 532 (723)	1,717 X 1,389 X 1,288				
P222LE-S	V 12	TI	21.9	682 (927) / 625 (850)	603 (820) / 552 (750)	1,717 X 1,389 X 1,288				
P222FE	V 12	TI	21.9	711 (967) / 659 (896)	612 (832) / 569 (774)	1,719 X 1,389 X 1,305				
P222LE-II	V 12	TI	21.9		652 (886)	1,717 X 1,389 X 1,288				

# CUMMINS

## G-DRIVE ENGINE



Model	Engine Power Output at rated (rpm)				Power Rating			
	Standby KWm	HP	Prime KWm	HP	Standby KVA	KW	Prime KVA	KW
S33-G1	36	48	32	43	38	30	34	27
S38-G6	536	719	487	653	55	44	50	40
S38-G7	649	87	596	799	55	56	64	512
6BTA59-G5	102	137	93	125	110	88	100	80
6BTA59-G3	127	170	116	155	138	110	125	100
6BTA59-G5	160	215	145	195	176	141	160	128
6CTAA83-G3	127	170	116	155	220	176	200	160
QSL9-G3	257	345	227	305	275	220	250	200
QSL9-G5	310	415	268	359	330	264	300	240
T855-G6	?	?	?	?	350	280	320	256
NTA855-G4	351	471	317	425	350	320	365	292
QSK15-G8	500	670	444	595	550	440	500	400
VTA28-G5	671	900	608	815	700	560	636	509
QSK23-G3	768	1030	701	940	900	720	810	648
QST30-G4	970	1300	880	1180	1100	880	1000	800
KTA50-G3	1227	1645	1097	1470	1400	1120	1275	1020
KTA50-G8	1429	1915	1200	1608	1675	1340	1400	1120
QSK60-G4	1915	2567	1730	2319	2250	1800	2045	1636

# DOOSAN

## GAS



Model	Type		Displacement (liter)	Output (ISO 3046/8528)		Dimension (LxWxH) (mm)	Power Rating			
	No. of cyl	Aspiration		KW(PS)@1800RPM Standby / Prime	KW(PS)@1500RPM Standby / Prime		Standby KVA	KW	Prime KVA	KW
GE08TI	L 6	TI	8.1	165 (224) / 150 (204)	141 (192) / 128 (174)	1,224 X 760 X 973				
GE12TI	L 6	TI	11.1	225 (304) / 200 (272)	187 (254) / 175 (238)	1,405 X 854 X 1,077				
GE158TI	V 8	TI	14.6	300 (408) / 270 (367)	253 (344) / 230 (313)	1,389 X 1,222 X 1,070				
GE180TI	V 10	TI	18.3	375 (510) / 340 (462)	319 (434) / 290 (394)	1,495 X 1,222 X 1,169				
GE222TI	V 12	TI	21.9	451 (613) / 410 (557)	385 (523) / 350 (476)	1,717 X 1,222 X 1,195				





