Hyundai DP180LB

Diesel Generator Set

PRIME POWER	STANDBY POWER
645 kVA / 516 kW	**710 kVA / 568 kW**

Specifications

Voltage / frequency	400/230 V, 50 Hz
Power factor	0,8
Rated current	931 A
Model name	D710
Engine	Hyundai DP180LB
Alternator	Leroy Somer TAL-A47-F
Control panel	DSE 7320
Fuel type	Diesel
Autonomy at 75% load	9,6 h
Dimensions	441 x 180 x 250 cm
Weight	5.595 kg

Ratings definitions

PRIME POWER PRP

Prime power available in variable load application in accordance with ISO 8528. A 10% overload capacity is available for a period of 1 hour within a 12-hour period of operation. Average power consumption should not exceed 80% PRP for each 24 h of work.

STANDBY POWER ESP

Emergency standby power rating is applicable for supplying emergency power for the duration of a utility power interruption. No overload allowed; limited to 500 operating hours per year and 300 operating hours of continuous duty.

STANDARD REFERENCE CONDITIONS

Output ratings are presented at 25 °C air inlet temperature, barometric pressure 100 kPa and relative humidity 30%. This generating set is designed to operate at high ambient temperatures (up to 50 °C), humidity (up to 70%) and higher altitudes. Under specific site conditions, genset output power may derate.

Directives, Standards & Certifications

Category	References
EU Directives	2006/42/EC, 2014/30/EU
Product standards	EN 60204-1:2018, EN ISO 12100:2010, EN 55012:2007+A1:2009, EN ISO 8528-13:2016, EN 61000-6-1:2019, EN IEC 61000-6-4:2019
Manufacturer certifications	ISO 9001:2015 / GB/T 19001-2016, ISO 14001:2015 / GB/T 24001-2016, ISO 45001:2018 / GB/T 45001-2020

Technical Data

Engine

Model	DP180LB
Brand	Hyundai
Number of cylinders	10
Aspiration	Turbocharged and intercooled
Displacement	18,273 L
Bore x stroke	128 x 142 mm
Compression ratio	15,0:1
Rated speed	1500 r/min
Engine power	556 kWm
Coolant capacity	91 L
Oil capacity	34 L

Alternator

Model	TAL-A47-F
Alternator brand	Leroy Somer
Phase	3
Voltage	400 V
Wiring type	12 wires
Bearing	Single bearing
Power factor	0,8
Frequency	50 Hz
Prime power	660 kVA
Excitation type	Brushless, self-excitation
Voltage regulation	±0,5 %
Protection grade	IP23
Insulation class	H

Fuel consumption

110% load (Standby power)	150 L/h
100% load (Prime power)	136,4 L/h
75% load (Prime power)	103,8 L/h
50% load (Prime power)	71,2 L/h
Fuel capacity	1000 L

Warranty

12 months from date of purchase or 1000 hours.

Features & Control

Standard features

- Radiator (50 °C max.), belt-driven fan
- 24 V charging alternator
- Single-bearing alternator, IP23
- Insulation class H/H
- Standard automatic control system
- Main line circuit breaker / ACB
- Base fuel tank
- 2 x 12 V batteries, rack and cables
- Exhaust system
- User manual
- Battery charger
- Jacket water heater

Controller

- Model: DSE 7320
- 7 configurable digital inputs
- Built-in governor and AVR control
- Base load (kW export) functionality
- Mains (utility) de-coupling protection
- Generator power (kW, kVA) monitoring
- Overload (kW & kV Ar) protection
- Emergency stop
- Start failure

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