

D POWER

DIESEL DRIVEN GROUND POWER UNIT

With its **D POWER**, Hitzinger presents a state-of-the-art ground power generation for aircrafts during the flight preparation phase. The improved efficiency and reduced total costs of operation as well as the increased eco friendliness and usability make the **D POWER** the most innovative ground power unit for demanding long-term operations.



AVAILABLE APPLICATIONS

- Towable application
- Motorised application
- Application for aircraft tow tractors

POWER RANGE

- **D POWER 90** to 180 kVA

TECHNICAL DATA

- Voltage: 200/115 VAC
- Frequency: 400 Hz

ENVIRONMENT

- Ambient temperature:
-30° C to +52° C
- Relative humidity
up to 95 %
- Noise level:
< 75 dB (A) @ 1m

OPTIONS

- 28 VDC unit for single or simultaneous operation
 - permanent load: 600 A
 - maximum load: 2500 A
- Modified protective separation (IT) according to DFS 400
- Individual customization on request

STANDARDS

- ISO 6858 version 2
- SAE ARP 5015
- DFS 400
- BS 2G 219
- MIL-STD 704
- EN 2282
- EN 61439
- EN 1915-1/-2
- EN 12312-20
- EN 61000-6-4

FOR OVER 70 YEARS, QUALITY, EFFICIENCY, AND DURABILITY HAVE BEEN THE FOUNDATIONS OF OUR SUCCESS. COUNTLESS INDUSTRIES THROUGHOUT THE WORLD PLACE THEIR TRUST IN US TO PROTECT AND POWER THEIR BUSINESSES AT EVERY MOMENT OF EVERY DAY. AS A WORLD LEADER IN TAILOR-MADE POWER SOLUTIONS, WE ARE YOUR PARTNER FOR INNOVATION, VALUE AND SERVICE. WE ENSURE THAT YOU'VE GOT THE POWER.

POWER. ANYTIME. ANYWHERE.



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YOU GOT THE
POWER.



AIRPORT TECHNOLOGIES

D POWER

Diesel Driven Ground Power Unit



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DP_03_en_02/2020 Technical specifications and illustrations correspond with those at the time of printing. Subject to change.

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GUARANTEED POWER

The **D POWER** distinguishes itself through optimized economic and alternator efficiency. Minimized maintenance costs, convenient serviceability and easy operation complete the product’s consistent development strategy. We guarantee optimal power.



MAXIMUM EFFICIENCY

The reduction of rotations per minute to 1500 results in significantly lower fuel consumption. Hence, the D POWER increases its commercial efficiency. Additionally, maintenance costs are minimized and the noise level is decreased as much as possible.



INCREASED EFFICIENCY

Due to the increased alternator efficiency and independent from the load profile, aircraft may also be powered as economically as possible during turn-around.



BEST SERVICEABILITY

The modular design of the control unit simplifies all service works. Spaciously designed side panels enable optimized access.



USERFRIENDLY CONTROLS

The touch panel of the controller distinguishes itself via intuitive user guidance. It is easily readable, even in direct sunlight, water and dust proof, and suitable for adverse airfield conditions. Moreover, the resistant touch screen can be operated conveniently with working gloves.



SIMPLY BRILLIANT

Economic efficiency, safety, and maximum flexibility are the main focus of our development strategy. We evaluate the power of innovation according to the benefit it provides for our customer. “More power for less investment and optimal handling” is our ethos.

ECONOMIC GROUND POWER

INNOVATIVE TECHNOLOGY

- engine speed: 1500 rpm
- lowest noise level
- lowest maintenance costs
- lowest emissions
- light-weight design
- robust chassis
- equal track width of the front and rear suspension results in:
 - stabile driving conditions
 - smallest turning radius/circle

SIMPLIFIED MAINTENANCE

- modular control unit
- outstanding access for serviceability and maintenance (from 4 sides)
- perfect access to maintenance-free absorbent glass mat batteries
- solid rubber tires

MONITORING SYSTEM

- easy operation via intuitive menu guidance
- clearly laid-out and easy to use operating data
- user mode for operation & service (user and expert mode)
- easy operation

ECONOMIC EFFICIENCY

- lowest fuel consumption
- extended life cycle
- less wear and tear of major components

SAFETY

- lighting system enables diverse operating states to be indicated optically (LED)
- easy to read error log
- drive-away lock if plug is not in the defined position

ERGONOMICS

- The operating panel is well positioned as well as the aircraft supply cable for safe and swift handling.
- spaciouly designed cable tray
- defined position for aircraft supply cables as protection against harsh weather conditions

TECHNICAL SPECIFICATIONS

GENERAL TECHNICAL SPECIFICATIONS	
Nominal power:	90/120/140/180 kVA
Power factor:	0.8 to unity
Voltage:	200/115 V 3-phase + neutral
Frequency:	400 Hz
Protection according to DIN 40050:	IP 55 400 Hz control unit
Overload characteristics:	110 % for 60 min, 125 % for 5 min

TECHNICAL DATA DIESEL ENGINE	
Make:	DEUTZ TCD 2013, TCD 6.1, TCD 7.8, TCD 4.1, water-cooled
	CUMMINS QSB5, QSB7, water-cooled
Exhaust emission level:	EU COM IIIA / EU Stage V / US EPA Tier 4 final
Engine speed:	1500 rpm / 1846 rpm / 2182 rpm
Engine electrics:	24 VDC
Diesel engine operation:	4-stroke in-line engine, common rail system

PERFORMANCE

TORQUE

CONSUMPTION

TECHNICAL DATA ALTERNATOR	
Make:	HITZINGER SGE050C32K
Efficiency:	92 % / 26 % / 22 %
Model:	32 pole, self-controlled 3-phase internal pole synchronous alternator

WEIGHTS AND DIMENSIONS		
D POWER 90	~2800 kg / 2600 kg	1792 x 1540 x 3970 mm (H x W x L)
D POWER 120	~2800 kg	1792 x 1540 x 3970 mm (H x W x L)
D POWER 140	~2900 kg	1792 x 1540 x 3970 mm (H x W x L)
D POWER 180	~2900 kg	1792 x 1540 x 3970 mm (H x W x L)