



## Ground Power Unit G90

**AES Ground Power Unit G90 offers innovative low noise ground power supply solution on all types of aircraft, with both 400Hz AC and 28V DC electrical system.**

G90 features relay controlled generator control system which offers sophisticated controlling, monitoring, and protection on generator. The CPU in the system allows fine adjustment on technical parameters.

Multiple protection mechanism, including over/under voltage, over/under frequency, overload, low oil pressure, and high engine temperature etc, make the system safe and reliable.

Two side open canopy make the inspection, maintenance, and repairing easy and convenient.

## Technical Specification

### Operating Performance

Capacity	90 KVA
Phase	3 Phases
Rated voltage	115/200V
Rated frequency	400Hz
Power factor	0.8
Voltage regulation	114 ~ 116V
Modulation	3.5V
Cold and hot state volta	±1%
Transient surge voltage range	90-140V
Transient voltage recovery time	0.1 second (no load to rated load)
Voltage adjust	115±12 V
Unbalanced phase voltage	3V (15% unbalanced load)
Crest factor	1.31 ~ 1.51
Total harmonic distortion	≤3% of the fundamental voltage
Individual harmonic distortion	≤2% of the fundamental voltage
Deviation coefficient	≤4%
Phase voltage displacement with balanced load	120°±2°
DC Power	16.8kw
DC voltage	28V
DC current	600 A

### Weight and Dimensions

Overall Dimensions (L*W*H)	2570*1702*1702mm
Max. Driving speed:	30km/h
Max. Gradeability:	30%
Noise:	≤ 80dB(A)
Gross Vehicle Weight:	1950kg

### Engine

**Deutz BF4M1013EC**  
Water-cooled, in-line, 4 cylinder  
Turbocharged, 112 kw/2000 rpm  
Electronic governor system  
12Volt DC battery system

### Generator

TFZPW-TH (75KW)400Hz adjustable,  
3 phase four wire system

### Working Conditions

Ambient temperature: -25°C to +50°C  
Relative humidity: ≤95%  
Altitude above sea level: less than 4000m