

GROUND POWER UNIT



PORTABLE GPU



40KVA GPU

Statcon

A Total Power Solutions Company.....

AN ISO 9001-2000 COMPANY





Statcon offers state-of-the-art GPU units for wide range of applications, both for Aircraft starting and its maintenance.

Designed using long experience of the company in indigenous development of Power Electronic Equipments, Statcon's GPU offers accurate and reliable operation.

The GPU is available in both “Tractor towable” as well as “Battery operated Vehicle” models. Statcon's GPU has been tested on wide range of Defence Aircrafts like SU-30-MKI, JAGUAR, MIRAGE, MIG-29, MIG-23, IL-76 / 78, MIG-BIS (MIG-21), AN-32 as well as wide range of Helicopters like MI-26, MI-25 / 35, MI-7 / 8, MI-17, DHRUV etc.

The GPU uses high speed Engine and directly coupled, 400Hz brushless alternator to generate the power required. In addition to above, specially designed Transformers Rectifiers are used so as to deliver both continuous and cranking load demands.

Alternatively, GPU using 50Hz Alternator with SFC are also available. An Electronic AVR connected to the field of the alternator helps in keeping the output voltage regulation within specified limits and at the same time meets the peak load demands of an Aircraft starting.

Micro-Controller based circuit continuously monitors and provides protection to both Aircraft and GPU against any unprecedented or fault conditions in the output power. The software helps in accurate & repetitive value measurements.

Each GPU is provided with two sets of cables (both AC & DC wherever applicable) with suitable connectors for connecting GPU output to the Aircraft. The whole GPU equipment is designed to with-stand rigorous temperature variations and can work at very high altitudes of upto 2500 meter above MSL.

TECHNICAL SPECIFICATIONS OF GPU

AC / DC GPU FOR AIRCRAFTS MODEL SPC-01

Output Power	:	40kVA, 400Hz, 3Ø, AC
Ambient	:	-20°C to 55°C
Altitude	:	upto 2500 meter above MSL
Power Source	:	Air cooled Engine -Alternator
AC Output	:	Suitable for two Aircrafts such that upto 25kVA in each path through 6 pin NATO & 15 meter cable
DC Output	:	Suitable for two Aircrafts. Gives 28V DC @10kW with 1250A for 10Sec for each path, one at a time through 3pin NATO & 15 meter cable
Transient Keys	:	Confirming to MIL Std. 704D
Make of Engine	:	Kirloskar/ Deutz / Equivalent
Type of enclosure	:	Tractor towable suitable for out-door application

NOTE :- GPU upto 140kVA AC & / 100kW DC can also be designed and supplied.

AC / DC GPU FOR MIG-21 AIRCRAFTS MODEL SPC-02B

Output Power	:	60kVA, 400Hz, 3Ø, AC
Ambient	:	-20°C to 55°C
Altitude	:	1500 meter above MSL
Power Source	:	Air cooled Engine -Alternator
AC Output	:	Suitable for two Aircrafts such that upto 25kVA in each path through 6 pin NATO & 15 meter cable
DC Output	:	Suitable for two Aircrafts gives 28V/56V DC @10kW with 1500A for 10Sec for each path one at a time through 3pin SHARA connector & 15 meter cable
Transient Keys	:	Confirming to MIL Std. 704D
Make of Engine	:	Kirloskar/ Deutz / Equivalent
Type of enclosure	:	Tractor towable/ Electronic Vehicle driven suitable for out-door application.

NOTE :- This GPU can be used for wide range of aircrafts requiring AC / DC or AC+DC Power.

DC GPU FOR AIRCRAFTS/ HELICOPTER MODEL SPC-02D

Output Power	:	20kVA / 40kVA
Ambient	:	-20°C to 55°C
Altitude	:	upto 2500 meter above MSL
Power Source	:	Air cooled / Water cooled Engine -Alternator
DC Output	:	Suitable for Aircrafts or Helicopter gives 28V DC @ 10kW with 1250A for 10Sec. for each path one at a time through 3pin NATO & 15 meter cable
Transient Keys	:	Confirming to MIL Std. 704D
Make of Engine	:	Kirloskar/ Deutz / Equivalent
Alternator	:	KEL / Equivalent
Type of enclosure	:	Tractor towable / Electric Vehicle operated suitable for out-door application

NOTE :- GPU upto 100kW DC can also we designed.

AC / DC GPU FOR AN-32 AIRCRAFTS MODEL SPC-04

Output Power	:	90kVA, 3Ø, AC
Ambient	:	-20°C to 55°C
Altitude	:	2500 meter above MSL
Power Source	:	Water cooled Engine -Alternator
AC Output	:	12kVA, 400Hz, 1Ø AC through SHARA 200 connector and 10 meter long cable.
DC Output(MAIN)	:	0-70V, 1600Amps peak through SHARA 800 connector and 10 meter long cable.
DC Output(AUX.)	:	28.5V, 10kW, 1200Amps peak through SHARA 500 connector and 10 meter long cable.
Transient Keys	:	Confirming to MIL Std. 704D
Make of Engine	:	Kirloskar/ Deutz / Equivalent
Type of enclosure	:	Tractor towable / Electric Vehicle driven suitable for out-door application.

AC / DC PORTABLE GPU



AC / DC PORTABLE GPU MODEL SPC-08V

AC Output	: 3kVA @ 0.8Pf, 200V \pm 1.5%, 400Hz \pm 3%
DC Output	: 28.5V DC \pm 0.5V @ 70Amps continuous upto 1200 Amp for Aircraft starting
Type of Battery	: Ni-cd
Ambient	: -20°C to 45°C
Altitude	: upto 2000 meter
Protections	: AC & DC under voltage : AC & DC over voltage : AC under / over frequency : Over load : Engine High Temp. : Engine low lube oil pressure
Output - Cable	: 7 meters long AC & DC cable. (with suitable connector)
Weight	: Weight 225kg. approx
Application	: Suitable for Helicopters and small aircrafts.
Type of enclosure	: Towable trolley, can be loaded in a jeep and can be transported through Helicopter.

Product Range :

- Ground Power Unit for Aircraft starting / servicing.
- Portable GPU for Helicopters / Light Aircrafts.
- Helicopter Starting Rectifier.
- Frequency Converter upto 140kVA.
- Battery Discharger-Capacity Tester.
- Cell Monitoring System for Aircraft Battery.
- Custom built High Power Rectifiers / Controls.
- Load Bank for Alternator / DG set testing.
- AC-DC & DC-DC Converters.
- Battery Chargers from 24V/48V/110V/220V upto 1500A.
- Micro Controller based Battery Chargers.
- Integrated Power Supply for Railway Signalling.
- SMPS based chargers for Telecom (48V) & Power Sector (110V/220V).
- Embedded System based product development.



Statcon Power Controls Ltd.