

MINI DIESEL GPUs

RUN ON DIESEL OR JET A1



Multi-purpose unit – classified role

Scammer™ 150

115V 400HZ / 28 VOLT DC

110V 60HZ / 28 VOLT DC

230V 50HZ / 28 VOLT DC

SCAMMER — SELF-CONTAINED, AIR-MOBILE, MODULAR, EMISSION RESTRICTED— GPU

Typical power plant:*

PT6C-67, ALF 502, TPE331,
TFE 731, AE3007A

(Assumes SCAMMER batteries
fully charged)

Pre-flights: All DC business jets, small
commuters, Jetstream, Hawker
Beechcraft etc.

Air-con: up to 150 amps continuous,
peak to 2000 amps, short term 200–3000
amps until voltage limit warning

Turbine starting: All DC business jets,
Jetstream, BAe 146, Saab 340, ERJ 145



28.5 volts diesel GPU (115/200V 400Hz AC power optional)

The SCAMMER was first developed in 1995 for the UK military in response to the need for a low cost self contained GPU able to produce both continuous DC power for pre-flight/avionics use and short-term high power for turbine starting.

In various configurations and in series production over 17 years, with sales to several armed forces, the latest version of this mini diesel GPU has been adapted for civil use and is now available for FBOs, regional airlines, and operators requiring versatile remote power at a fraction of the cost of a conventional diesel GPU.

The Powervamp SCAMMER – self-contained, air mobile, modular, emission-restricted – GPU comprises a small high-efficiency single cylinder diesel engine able to run on diesel or jet A1 fuel, direct coupled to a generator. Depending on specification, this provides continuous AC or DC power and very high amperage for starting turbines or powering aircraft systems for short duration by using either internal batteries or demountable portable DC power packs. A 115 volt 400Hz SCAMMER is available to power 400Hz aircraft systems.

For versatility, the output may be switched between 28 volt DC power and 110 or 230 volt 50/60Hz domestic voltage depending on customer spec, allowing the GPU to be used as a conventional gen-set.

In enclosed spaces such as maintenance shops or hangars, the diesel engine can be shut down and the unit powered directly from any 110/220V mains supply to provide 28V DC power without discharging the batteries.

Modular battery packs are an option, instantly delivering peak loads up to 2000 amps for the starting of large turbine powered DC regional aircraft. These optional packs may be used independently for maximum equipment utilisation and flyaway capability.

The SCAMMER can be disassembled for easy transport by road or air and supplied in a variety of configurations, and equipped with modular power supplies of up to 150 amps continuous output.

*This information is given in good faith. See disclaimer, page 2



SCAMMER providing power for MRO operator



Military units for remote ops

SPECIFICATION

DC output

Rated power	Up to 4.3kW
Voltage	28.3V / 29.5V / 31.6V +/- 1%
Permanent current	Up to 150A continuous
Inrush current (batteries)	Up to 3000A peak amps

AC output

110V/230V 50/60Hz mains power available

Height	Length	Width	Weight
757–997mm* (30–39in*)	985–1999mm* (39–79in*)	610–930mm* (24–37in*)	185–350kg* (408–772lbs*)

* dependent on configuration

Operating temperatures	-10°C to +50°C (+14°F to +122°F)
Option	Cold starting aid
Run time	Typically 13 hours @ 75% load



110V 60Hz panel with 4 x 110V outlets. Panel layout will vary according to model and user requirements

FEATURES — BASIC UNIT WITHOUT FRONT/REAR AXLES

- Range of modular outputs available to suit individual starting requirements, up to 3000 peak amps
- Support 24/26V and 28.5V DC systems
- Up to 150 amps continuous at 28.5V DC
- Additional 110V/230V 50/60Hz power outlets for general ramp use
- Optional 115/200V 400Hz AC alternator for 400Hz avionics use
- Shore power capability for silent, clean aircraft maintenance supply within hangar
- Removable battery modules for use independently or as fly-away GPUs when required (see Options)
- Easy to manoeuvre and transport between operational bases
- Simple to service and maintain
- Modular designs to suit operator requirements
- Full datasheet available upon request

UNIT SUPPLIED AS STANDARD WITH

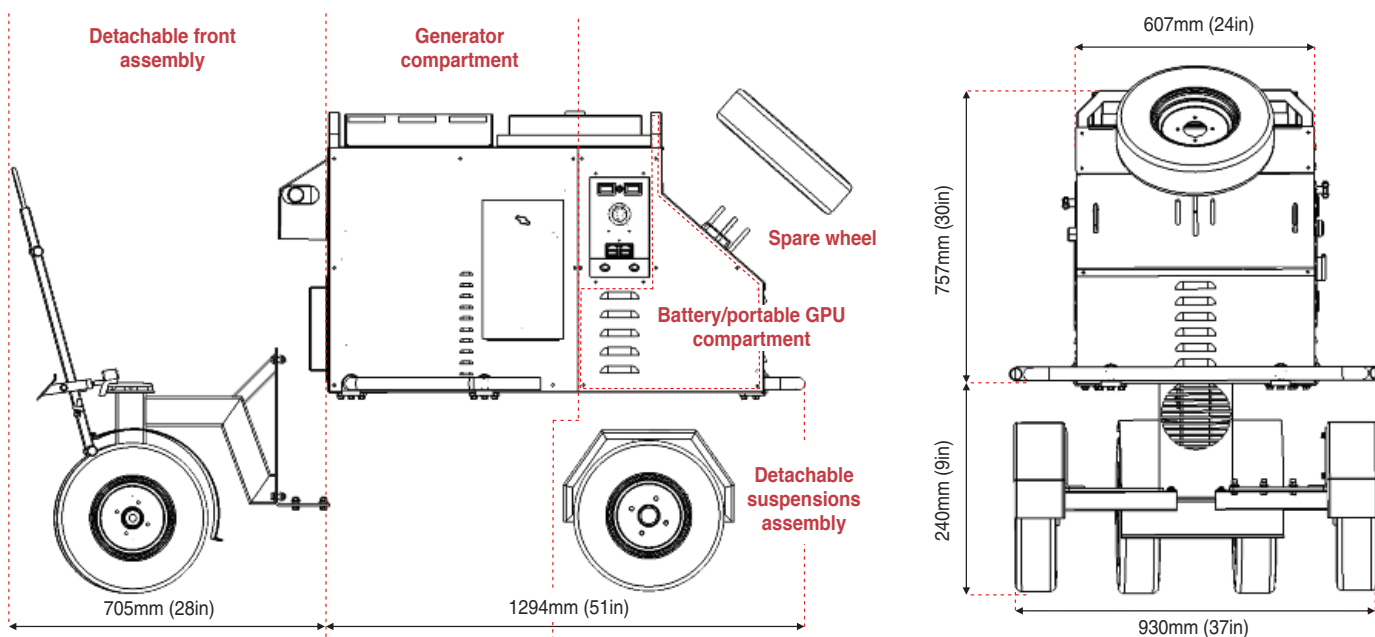
- 130 amp/hr high discharge VRSLA batteries
- 4-metre (13ft) double insulated DC output cable with heavy-duty rubber nato plug and 'yoke' cable if paralleled GPUs
- Frame manufactured from steel channel and square hollow section, finished as standard in yellow powder-coat paint. Alloy side panels and non-ferrous/stainless steel fittings
- Alloy 23-litre (6 gallon) fuel tank with purge drain tap for air transportation
- Toolkit for service and maintenance
- Spare wheel
- Fire extinguisher (only supplied when shipped by surface transport)

OPTIONS

- Bolt-on twin front wheel, tow bar and rear wheel assembly to enable SCAMMER to be towed at up to 20kph (12mph).
- 2 x GPU 1500/40 24 volt demountable portable GPUs (see GPU 3000/80 spec) includes paralleling yoke
- 2 x GPU 2000 37 amp/hr demountable GPUs (see GPU 4000 spec) includes paralleling yoke
- 2 x Coolspace 29, 28 volt, 29 amp/hr demountable GPUs (see Coolspace 58 spec) includes paralleling yoke
- Padded protective jackets for demountable packs
- Extra output lead to allow individual pack use



For maximum versatility the SCAMMER is modular in design. Users wishing to operate the SCAMMER directly from the back of a vehicle, service van or baggage cart can order the unit without front/rear axles, suspension and wheels, while specifying the type of battery system they require.



- Detachable front wheel assembly through 8 x M10 bolts
- Combined "T" and tow bar for easy manoeuvrability

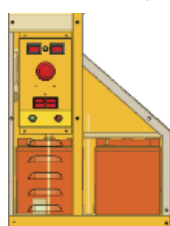
- 5kW 110V/230V AC or optional 5.6kW 115/200V AC 400Hz generator
- 4.5kW 28V DC power supply
- Up to 150 amp continuous

- Standard spec: 30 amp/hr high discharge VRSLA batteries option
- Option 1: Portable 24V 2 x GPU 2000 option
- Option 2: Portable 24V 2 x GPU 1500/40 option
- Option 3: Portable 28V 2 x GPU Coolspool 29 option

Overall weight varies between 185kg and 350kg (408lbs and 772lbs) depending on frame, generator and batteries options

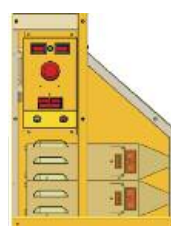
BATTERY/PORTABLE GPU COMPARTMENT

Standard factory fit



24, 26 or 28V 130 amp/hr VRSLA batteries

Alternative installations



GPU 4000T



GPU 3000/80



GPU Coolspool 58