

# Specifications

## Physical properties

Weight	63 kg
Length, width, height	555 x 480 x 580 mm

## Operational modes

Mode A	Normal mode
(Mode B)	(Hi-power mode)

## Electrical characteristics

Nominal voltage rating	28,5 VDC
Continuous current output	70A (125A)
Power quality	Fulfilling ISO 6858-1982 (E) and MIL-STD-704E
EMC	Fulfilling MIL-STD-461F
Generator isolation grade	F, brushless generator
Built-in voltage protection (customizable)	<20V for 4s >31,5V for 10s; >34V for 0,4s; >40V for 0,1s

## Environmental

Operating temperature range	-46°C to +49°C (-51°F to 120°F)
Start-up temperature range	Down to -32°C (-26°F)
Sound level	75 dB(A) at 7 m in normal mode
Transport shock	10G/16ms in X/Y, 1000 shocks/direction 2G/16ms in Z, 1000 shocks/direction

## General

Heavy fuel compatibility	Diesel, F34/35, F54, F63
Tank capacity	4,5h operating time with built-in tank Jerry can connectible
NVG friendly	Dimmable control panel light
Very robust, designed for snowy, humid, and dusty environments	
Manual and electrical start	
Exhaust system with spark arrester, detachable exhaust bend	
Requires no batteries	



P.O. Box 42, SE-343 21 Almhult, Sweden.  
Tel +46 476 559 50.  
mail@mseab.se - www.mseab.com

# GPU-T Tactical Ground Power Units



## Tactical Ground Power Units

MSE offers a range of tactical Ground Power Units. They are modular and designed to be as lightweight, small and easy manoeuvrable as possible and offer the best power-to-weight ratio available. Thanks to the very low weight and small size, they are optimal for rotary wing aircrafts and other vehicles where space and load capacity is limited.



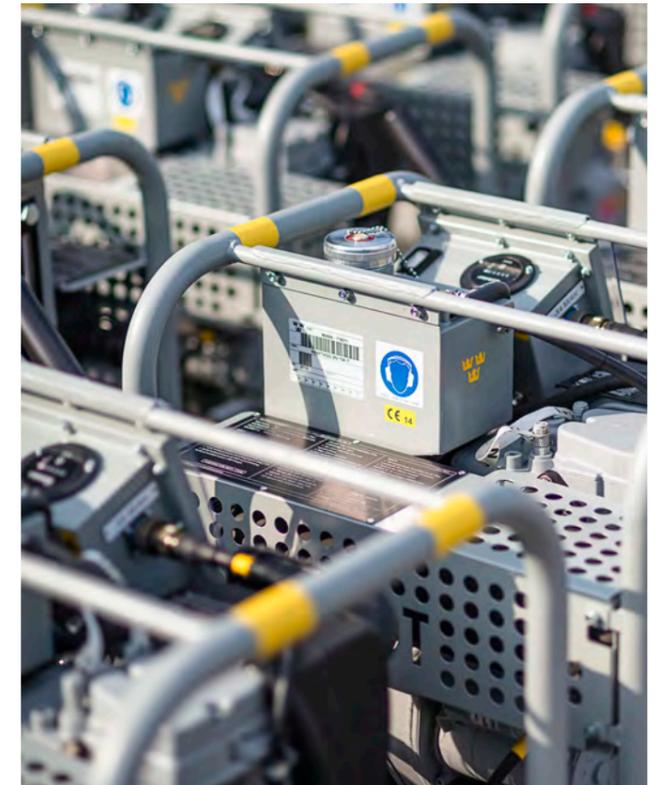


### Key benefits

- Lightweight
- Portable
- Helicopter transportable
- Heavy fuel compatible
- All environment
- Crew operated
- Quick to deploy
- NVG compatible
- Life cycle support
- For land and sea based helicopters



The GPU-Ts are heavy fuel compatible



Serial production of GPU-Ts at MSE

## Compact power

The tactical GPUs from MSE Engineering, originally designed and built to meet the high demands of the Swedish Armed Forces, provides its users with a small, lightweight and easy-to-use system.

Tested for use in the harshest of environments, the lightweight GPUs can be deployed virtually anywhere, within seconds. The GPUs are extremely reliable thanks to the choice of high-quality component and robust design. In critical missions, you can always rely on the GPUs from MSE.

Featuring the latest technology with a single cylinder diesel motor, it is versatile and runs on heavy fuel. A

diesel heater can be simultaneously powered with the vehicle.

Via the control panel, the operator is provided with a straightforward overview of the status of the GPU. Being as robust and user friendly as the entire product, the control panel is easy to operate in extreme environmental conditions, e.g. in cold climate and muddy/dirty conditions where gloves are needed.

### Military power quality

The 28 VDC power quality provided by the lightweight GPU is tested and measured to fulfil military standards, safeguarding sensitive electronics in the vehicles. Also automatic voltage protection is built in.

### A complete package

The package delivered by MSE is a turn-key GPU systems, including the GPU itself, accessories, transport cover, training, spare parts, manuals, spare part catalogue and maintenance schedules. If required, MSE also provides additional life cycle services, such as helpdesk, training, upgrades and maintenance.

### About MSE Engineering

MSE Engineering, is a company based in Sweden, having a long tradition of finding new solutions and integrating complex systems. For more than 60 years MSE has been working together with different military organisations and the defence industry to develop and produce advanced system solutions. Our specialties are Ground Power Units and simulator hardware.



GPU-T connected to AW109