



BENEFITS

GRASSHOOPER – GaN-based Resonant Aerospace Switching-mode Supply, for High Output Power with Promising Efficiency and Reliability

The GRASSHOOPER is a galvanically isolated power system for small, medium and large-sized satellites.

It is a 750 W Switching-Mode Power Supply with 2 parallel PSFB cores, that features very high efficiency utilizing the advantages of GaN FETs and Zero-Voltage Switching.

Main features:

- 90 - 150V input voltage range, 28V ($\pm 2.5\%$) output
- 94 - 98% (TBC) efficiency on the full input voltage and temperature range
- Further parallelization capability for higher power needs or redundancy

SPECIFICATIONS

Maximal power	750 W
Input voltage	100 – 150V
Output voltage	28V ($\pm 2.5\%$)
Converter cores	2 x Phase-Shifted Full Bridge
Free-running frequency	165kHz(typ)
Output ripple frequency	330 kHz (typ, current doubling topology)
TMTC	<ul style="list-style-type: none"> • ECSS-based discrete • TMTCTM: LV/HV-HPC • TC: BSM Analogue telemetries: <ul style="list-style-type: none"> • Multiple thermistors • Output voltage • Output currents from both sides



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