

WATTS UP



BLOG

READ OUR INFORMATIVE BLOGS

How to Extend the run
Time on Battery
Powered Equipment



READ MORE

What are buck, boost
and buck-boost DC-DC
converters?



READ MORE

Extending Runtimes of Battery-Powered Equipment

Maximizing battery runtimes is crucial for the efficient and safe operation of battery-powered equipment. Our compact and efficient DC-DC power solutions ensure the reliable operation of critical electronics, extending battery runtimes for AGVs, AMRs, drones, and more. Explore our Industrial Non-Isolated DC-DC converters for the ideal power solution.

i1C
200W
Buck-Boost



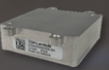
i7C
300W
Buck-Boost



RGC
300W
Buck-Boost



RGB
400-750W
Buck



Introducing a Compact Powerhouse: i1C Series DC-DC Converters

The 200W i1C series DC-DC converters offer adjustable output voltages (9.6 to 28V) and deliver up to 10A. These buck-boost converters operate efficiently from 9-36V or 18-75V inputs. Ideal for industrial, and battery-powered equipment, the i1C is up 98% efficiency with robust thermal performance (120°C case).

[i1C Series Datasheet](#)

Maximize Power Efficiency with the i7C Buck-Boost DC-DC Converters

The i7C series, rated up to 300W, features wide input ranges (9-36V or 9-53V) and adjustable outputs from 9.6 to 48V. These converters efficiently transform battery source voltage to various DC output rails, powering sensors, 3D cameras, LiDAR, GPS, networking cards, motors, and actuators.



[i7C Series Datasheet](#)



Ruggedized Power Solution: RGC Series DC-DC Converters

Encapsulated in a robust 5-sided metal enclosure, the RGC series offers wide output voltages (9.6 to 48V or 5 to 28V) with input ranges from 9 to 53V. These converters deliver efficiencies of up to 97% and feature MIL-STD-810G shock and vibration resistance, making them ideal for harsh environments.

[RGC Series Datasheet](#)

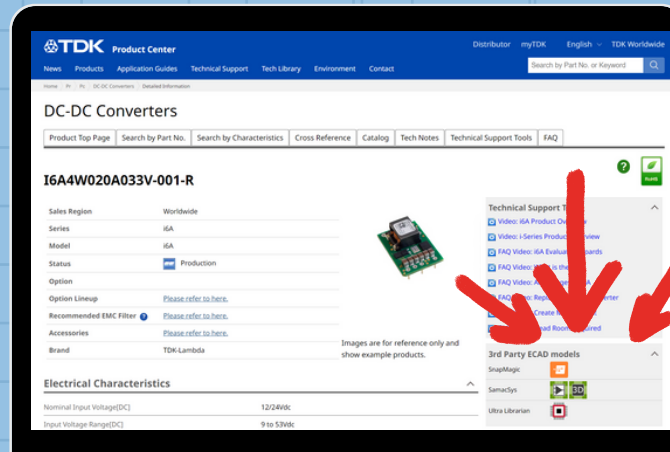


High Power RGB Series of Buck Converter for Industrial Applications

The RGB series comes in a compact, ruggedized metal case with industry 1/16th brick pin-out. With wide input and adjustable output voltage ranges, these converters efficiently power autonomous robot auxiliary accessories and attachments such as manipulators, articulated arms, and grabbers.

[RGB Series Datasheet](#)

Get the CAD models by clicking the part number links in the datasheet



EDA Models Available from:

SnapMagic

SamacSys
ELECTRONIC COMPONENT LIBRARY SOLUTIONS

Ultra Librarian



Check out more power solutions in our board mounted brochure.



CONTACT US



619-575-4400



tla.powersolutions@tdk.com



www.us.lambda.tdk.com



***Knowledge is power,
power is TDK-Lambda!***