



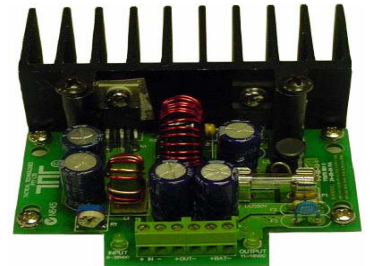
# Buck Boost Converter

Have you ever installed a long cable run and found the voltage at the far end was too low to power your equipment? Or have you needed to power a 24VDC device and the only available power was 18V?

Developed to provide a regulated 24V-27.6V DC output (adjustable), where input voltage ranges from 10V to 36VDC, the TPS-BB-24 Buck Boost Converter is the answer.

If input voltage is either too high or too low at your equipment, the TPS-BB-24 can automatically buck (decrease) or boost (increase) voltage to meet the device's requirements.

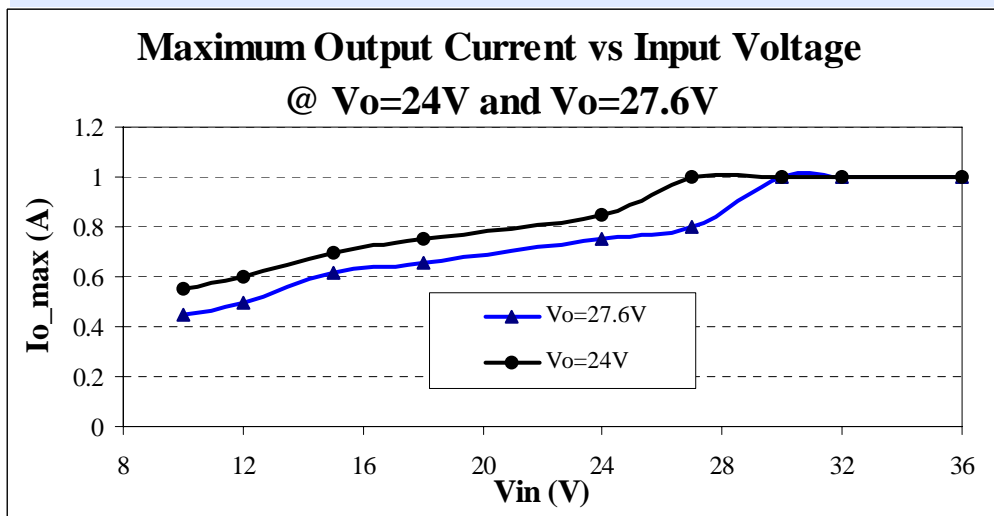
There is no effect on the output during the transition from buck to boost (or vica-versa). This module also features an on-board battery charging facility when the output is adjusted to 27.6V DC.



## Additional Features

- Output over current and short-circuit protection
- Internal Thermal shutdown
- Replaceable output fuse
- Reverse Battery protection
- On-board 150 mA current limited battery charger if output is adjusted to 27.6V DC (Ensure that your equipment is suitable for 27.6V DC operation)

Input Voltage Range :	9.5 - 36V DC
Output Voltage :	24.1V DC (24 - 27.6V DC adjustable)
Maximum Output Current :	1 Amp - see chart below
Load Regulation :	< 1% from 0% to 100% load
Line Regulation :	< 0.2%
Soft Start :	Typically 1-2 seconds
Output Ripple & Noise :	< 20 mV at full load over full input range
EMC :	CISPR 11 Class B
Dimensions :	114 mm x 91 mm x 38 mm



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# TPS-BB-24

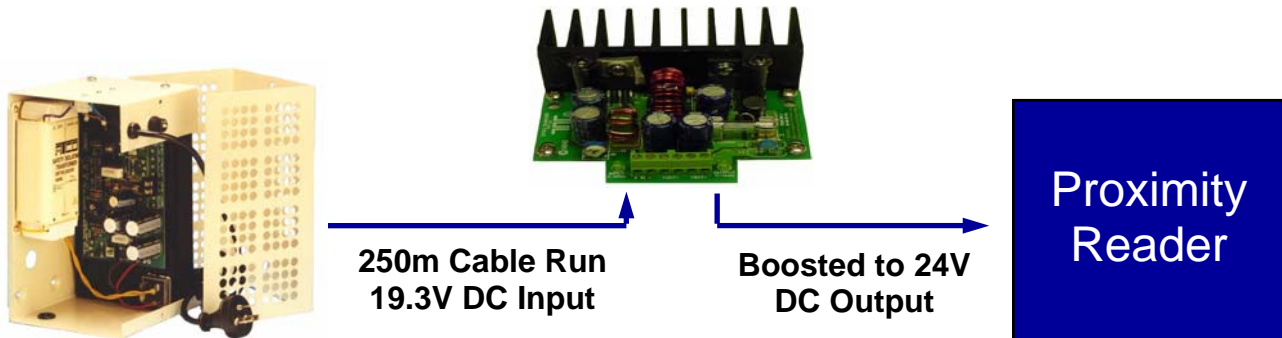
# Typical Installation Example

## Scenario

- Five Proximity Card Readers are powered by a centrally installed 24V DC 5 Amp power supply.
- At the end of a 250 metre cable run to one of the Readers, voltage under load is only 19.3V DC - not enough to power the device.

## Solution

- Tactical Technologies TPS-BB-24 Buck Boost Converter.



## Wiring Diagram

