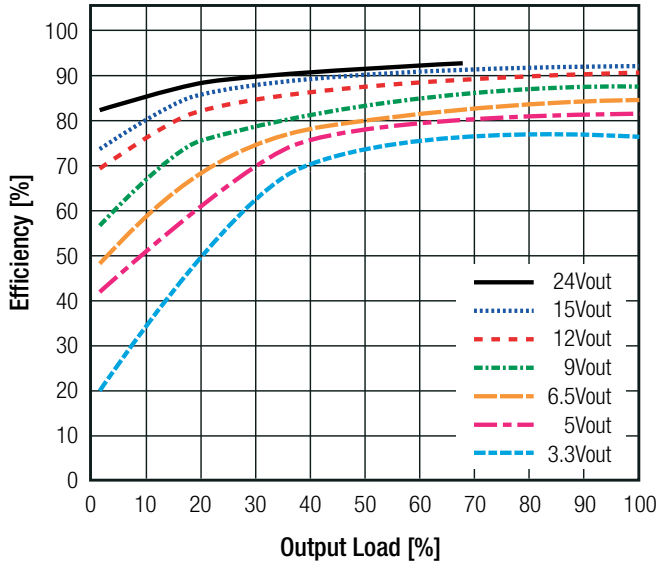
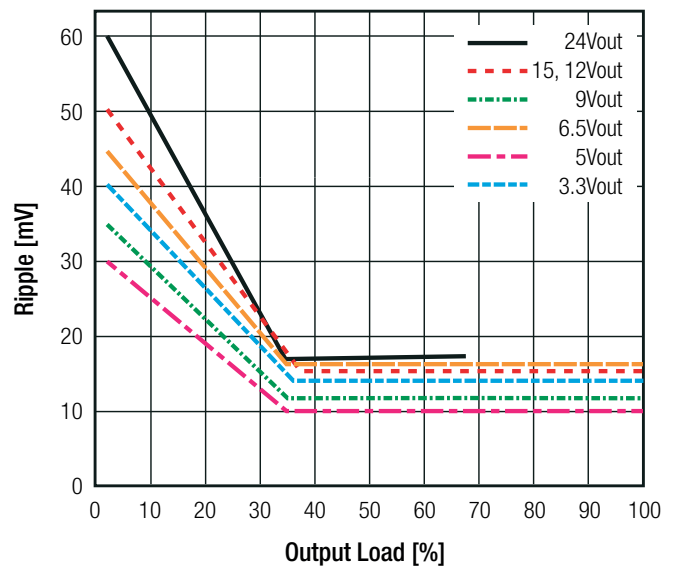


Specifications (measured @ Ta= 25°C, 10% minimum load, unless otherwise stated)

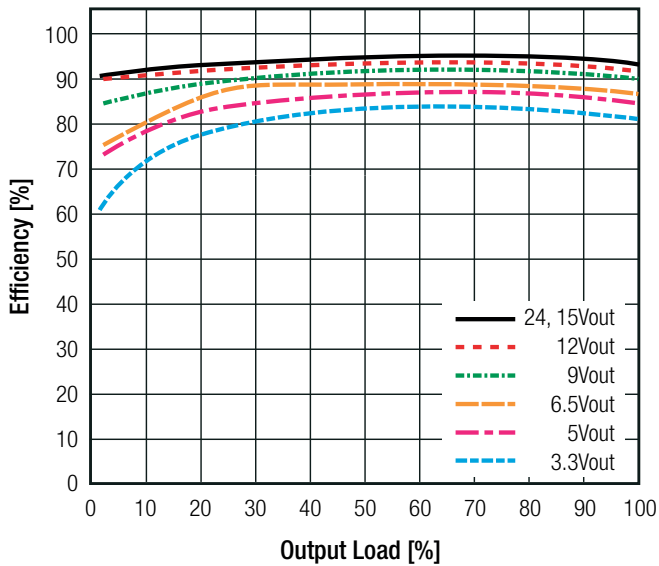
Efficiency vs. Load (max. Vin)



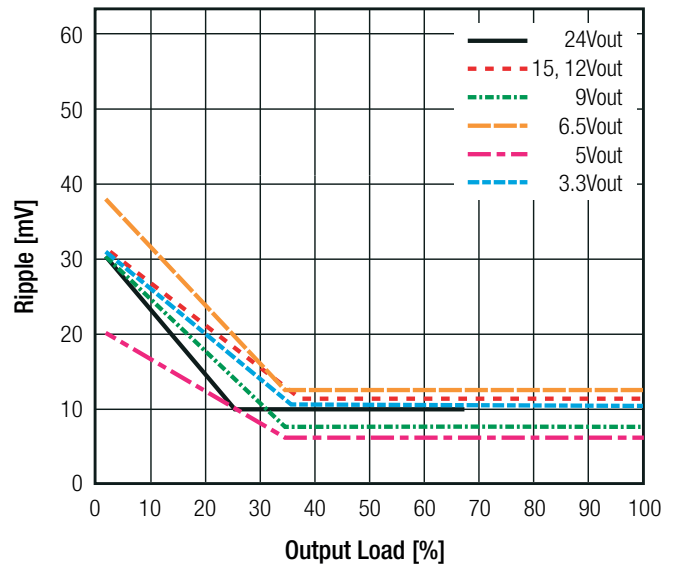
Ripple vs. Load (max. Vin)



Efficiency vs. Load (min. Vin)



Ripple vs. Load (min. Vin)



REGULATIONS

| Parameter | Condition | Value |
|-----------------------------------|----------------------------------|--------------------------|
| Output Accuracy | 100% load | ±2.0% typ / ±3.0% max. |
| Line Regulation | low line to high line, 100% load | ±0.4% typ. / ±1.0% max. |
| Load Regulation | 10% to 100% load | ±0.3% typ. / ±0.6% max. |
| Transient Response ⁽³⁾ | 100% <-> 50% load | ±75mV typ. / ±100mV max. |

Notes:

Note3: Measurements are made with a 100µF output capacitor

Specifications (measured @ Ta= 25°C, 10% minimum load, unless otherwise stated)

PROTECTIONS

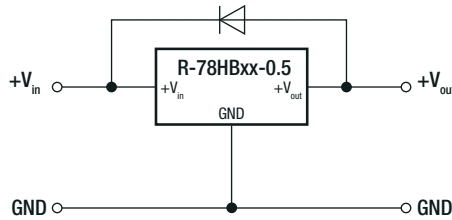
| Parameter | Condition | Value |
|--------------------------------|-----------------|--------------------------------|
| Short Circuit Protection (SCP) | below 100mΩ | continuous, automatic recovery |
| Short Circuit Input Current | nom. Vin= 24VDC | 15mA typ. / 25mA max. |

Optional Diode Protection Circuit

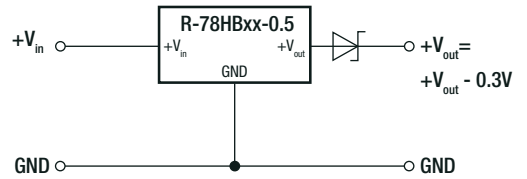
Add a blocking diode to Vout if current can flow backwards into the output, as this can damage the converter when it is powered down.

The diode can either be fitted across the device if the source is low impedance or fitted in series with the output (recommended).

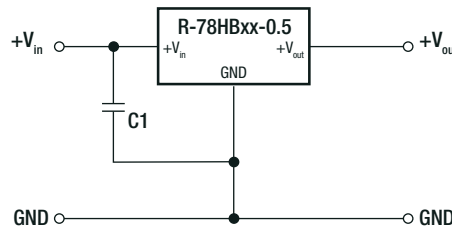
Optional Protection 1:



Optional Protection 2:



Protection Circuit



To protect the converter during power-up, use C1=3.3µF/100V if Vin>50V

ENVIRONMENTAL

| Parameter | Condition | Value |
|-----------------------------|----------------------------------|--|
| Operating Temperature Range | with derating (see graph) | -40°C to +85°C |
| Maximum Case Temperature | | +100°C |
| Temperature Coefficient | | ±0.015%/K |
| Thermal Impedance | 0.1 m/s, vertical | 60K/W |
| Operating Altitude | | 2000m |
| Operating Humidity | non-condensing | 95% RH max. |
| Pollution Degree | | PD2 |
| MTBF | according to MIL-HDBK-217F, G.B. | +25°C: 7395 x 10 ³ hours +71°C: 1242 x 10 ³ hours |

Derating Graph

