

Reasons for specifying Latronics inverters

1. Cheap inverters use **high** frequency switched mode transformers as opposed to **low** frequency toroidal transformers used in all Latronics inverters. The advantages of using the low frequency transformer design include:

- high surge capacity for inductive loads such as power tools
- ability to withstand accidental short circuits without damage
- 20% to 33% overload capacity for 30 minutes

2. Latronics inverters produce a pure (true) sinewave output as opposed to a square wave (euphemistically called a *modified* sinewave). Use of a true sine wave is particularly important for operating sensitive electronic and is recommended for most industrial equipment to achieve extended service life

3. Input protection – Latronics inverters are fitted with a DC circuit breaker. Low cost products are generally not fitted with any input protection and require the addition of a circuit breaker or fuses when installed.

4. Standby Mode- Latronics inverters will go into a power saving mode when there is no load connected and restart automatically when a load is applied. Cheap inverters do not have this feature which results in extra battery drain and shorter battery life.

5. Latronics inverters have at least a 2 year warranty; the larger (>1800VA) LS models and all IRM models have a 3 year warranty.

6. Local support and service in New Zealand means the Latronics inverters can be serviced in the event of a failure whereas most cheap inverters are throw away items as they are not supported in NZ.

7. Latronics inverters are designed for industrial duty and built using industrial grade components.

8. Latronics inverters have full isolation from input to output to minimise the risk of electric shock for the user.

9. Extra features such as tropicalisation and vibration proofing are available as options for harsh operating environments.