Traction Transformer

Eco Transformer

MELCO traction transformers are IRIS certified. (Category-4, power system)

- **Loss**: 50% reduction
- **Sound**: 13 dB reduction
- **LCC**: 70% reduction
Natural Air Cooling System

- Loss can be reduced by MELCO’s weight/size reduction technology.
- Fan power can be reduced to 0kW by applying natural air cooling system.
- Higher efficiency can be achieved by energy saving tech.
- Sound power level can be reduced 13dB by applying natural air cooling system. (80dB → 67dB).
- Comfortable and quite space can be achieved by sound power level reduction, inside the cabin and at the platform.
- LCC can be reduced by MELCO’s technical features.
  - No maintenance of blower
  - No cleaning of cooler
  - No exchange of oil
  - Less maintenance by high reliability and high quality

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**Sound level**

Forced Air | Natural Air
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90 | 77 dB
80 | 74 dB
70 | 71 dB
60 | 68 dB
50 | 65 dB
40 | 62 dB

**LCC for 35 years**

Forced Air | Natural Air
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0 | 40% reduction
5 | 50% reduction
10 | 60% reduction
15 | 70% reduction
20 | 80% reduction
25 | 90% reduction
30 | 100% reduction
35 | 110% reduction

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**In-house comparison**