

Why Natural Convection Cooling?



1. Fan has limited lifetime

- Within 10 years of operating in clean conditions expected fan failure rate is 8.8%.

In real life failure rate is higher

2. Electronics of the fan cooled rectifier suffers from dust and dirt in the air

- Dust and particles cover electronic components with heat insulating layer preventing their proper cooling. Overheated components are aging faster, underperform and could be damaged.
- Dust and particles build inside the power converter conducting bridges. They are sensitive to humidity, temperature and destroy electronics at unpredictable moment.
- Power systems with fan cooled rectifier modules require regular service visits for cleaning and modules swapping.



Rectifier module MHE, No Fans, Field proven reliability
Dust and particles do not settle inside the module.



- Maximal reliability and power availability
- Minimum maintenance needed
- Thanks to modular architecture maintenance process can be easily outsourced and module swap and expansion is easy to manage
- Specialists qualified and authorized to service DC power systems can operate remotely.
- Investment of the no fan MHE based power system will pay back within 3-5 years.
- Warranty period 5 years, Lifetime 20 years

TCO - Modularity and No fans mean the lowest Total Cost of Ownership for backup power systems lifetime