



Prachith's Infotech Marketers

15KVA(3:3) => Model -TTI50015 Online UPS System MTBF-MTTR- AVAILABILITY & AFR

MTBF	=	Hours in a Year	Mean Time Between failure
		AFR	

Failures are defined as critical load drops caused by anything, including human error.

During the sample period, twenty five failures were reported. So, based on the definition of failure established 25 failures are used in the calculation that follows. The failed products were received, diagnosed, and repaired prior to the AFR calculation.

AFR is Calculated As

AFR	=	25 failures X (52 weeks per year /26 weeks in sample period)	
		1000	

=	25x2
	1000

=	0.05
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MTBF	=	8760	hours
		0.05	

MTBF	=	175200	hours
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MTBF	=	20	Years
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MTTR	=	4 hours
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Availability	=	MTBF
		MTBF+MTTR

Availability	=	175200
		175200+4

Availability	=	175200
		175204

Availability	=	0.999977169
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