



Prachith's Infotech Marketers

40KVA(3:3) => Model -TTI50040 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, Four failures were reported. Of those, So, based on the definition of failure ,Four 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	=	4failures X (52 weeks per year /26 weeks in sample)
		200

=	4x2
	200

=	0.040
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MTBF	=	8760	hours
		0.04	

MTBF	=	219000	hours
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MTBF	=	25	Years
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MTTR	=	4 hours
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Availability	=	MTBF
		MTBF+MTTR

Availability	=	219000
		(219000+4)

Availability	=	219000
		219004

Availability	=	0.999981735
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