



**40KVA(3:3) => Model -TTI50040 Online UPS System MTBF-MTTR- AVAILABILITY & AFR**

<b>MTBF</b>	<b>=</b>	Hours in a Year	<b>Mean Time Between failure</b>
		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

<b>AFR</b>	<b>=</b>	4failures X (52 weeks per year /26 weeks in sample)	
		200	

<b>=</b>	4x2
	200

<b>=</b>	0.040
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<b>MTBF</b>	<b>=</b>	8760	<b>hours</b>
		0.04	

<b>MTBF</b>	<b>=</b>	219000	<b>hours</b>
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<b>MTBF</b>	<b>=</b>	<b>25</b>	<b>Years</b>
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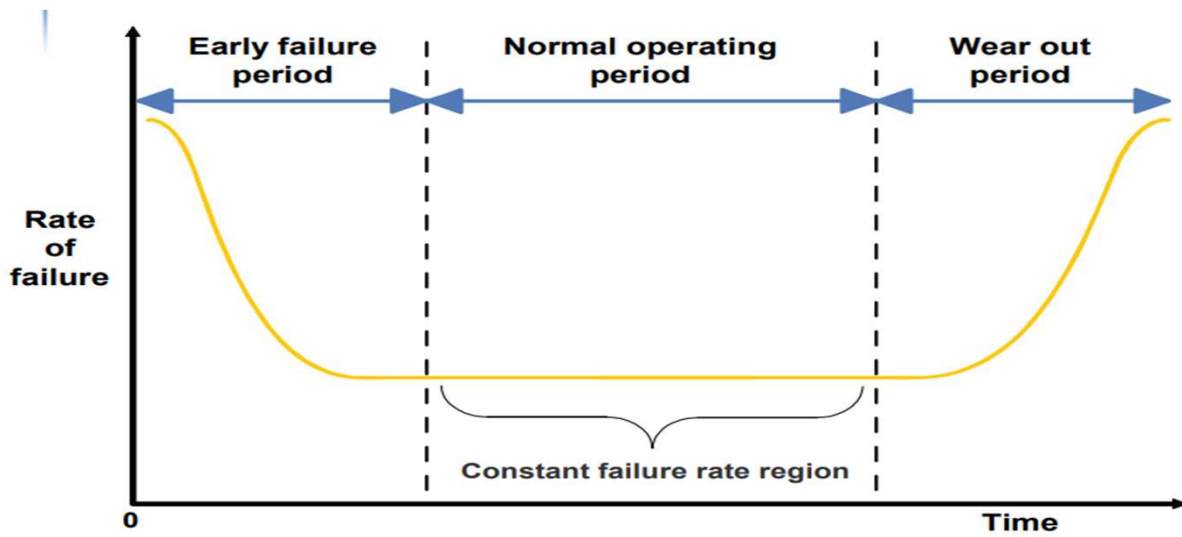
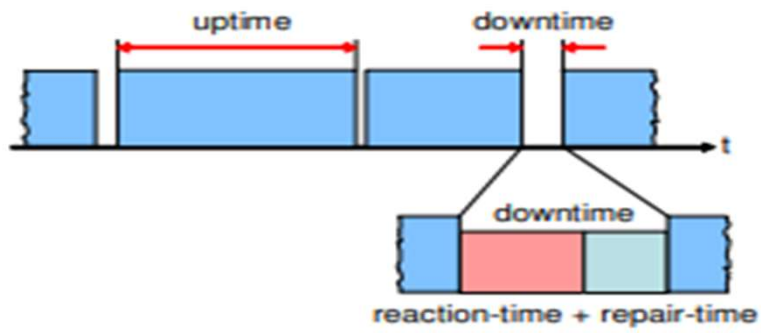
<b>MTTR</b>	<b>=</b>	<b>4 hours</b>
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<b>Availability</b>	<b>=</b>	MTBF
		MTBF+MTTR

<b>Availability</b>	<b>=</b>	219000
		(219000+4)

<b>Availability</b>	<b>=</b>	219000
		219004

<b>Availability</b>	<b>=</b>	<b>0.999981735</b>
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