

## 50KVA(3:3) => Model -TTI50050 Online UPS System MTBF-MTTR- AVAILABILITY & AFR

<b>MTBF</b>	=	Hours in a Year	
		AFR	

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

During the sample period, two failures were reported. Of those, So, based on the definition of failure ,two 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>	=	2 failures X (52 weeks per year /24 weeks in sample	
		100	

=	2x2.17
	100

=	0.0434
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<b>MTBF</b>	=	8760	<b>hours</b>
		0.0434	

<b>MTBF</b>	=	201843.318	<b>hours</b>
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<b>MTBF</b>	=	<b>23</b>	<b>Years</b>
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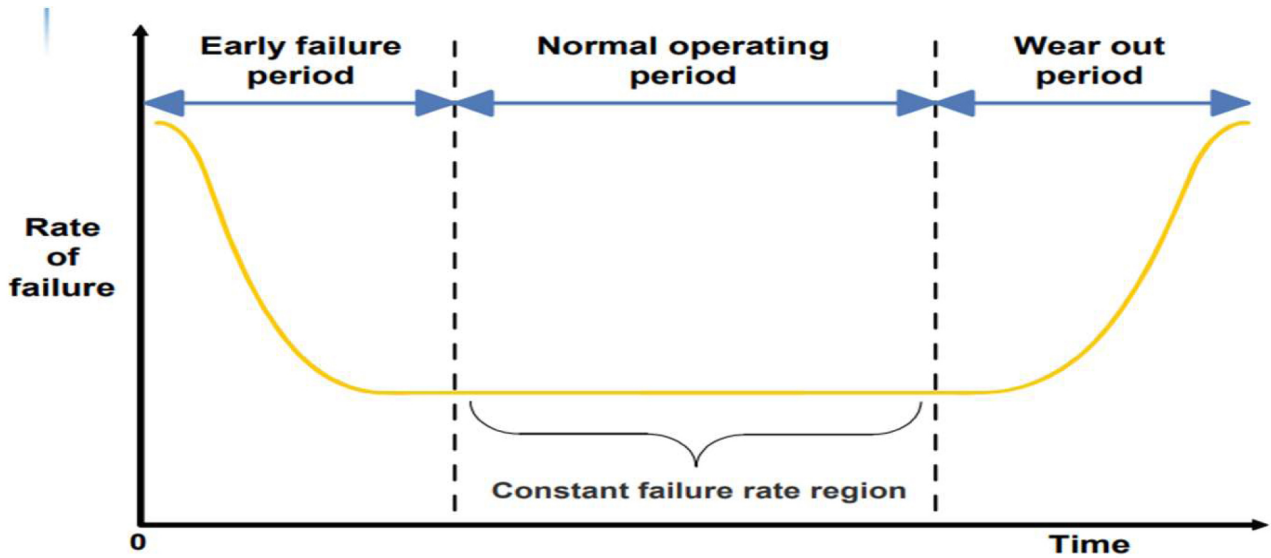
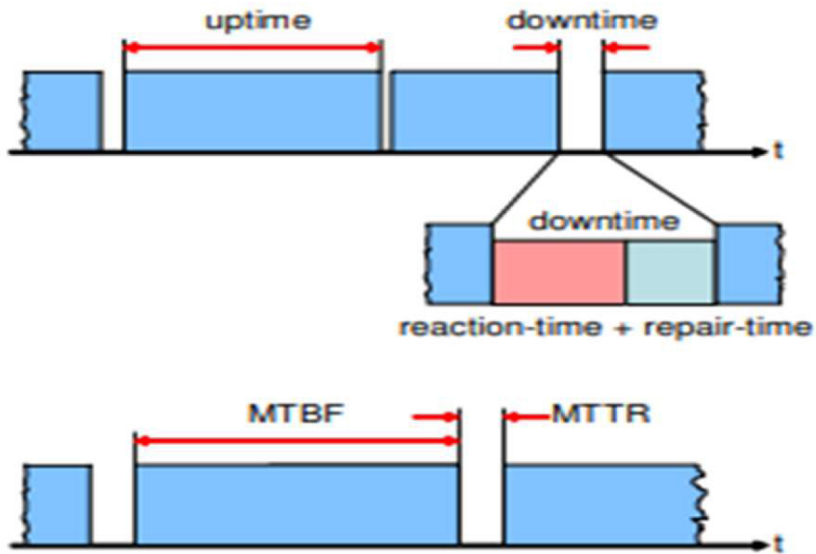
<b>MTTR</b>	=	<b>4 hours</b>
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<b>Availability</b>	=	MTBF	
		MTBF+MTTR	

<b>Availability</b>	=	201843	
		(201843+4)	

<b>Availability</b>	=	201843	
		201847	

<b>Availability</b>	=	0.999980183
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