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A half wave rectifier converts only half of the AC cycle to Uni-direction. Whereas a full wave rectifier converts both half cycles. What is efficiency of a rectifier? The ratio of DC output power to the applied AC input power is known as the efficiency of a rectifier.

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1. What is a Rectifier?

Ans: A rectifier is an electrical device that converts alternating current (AC), which periodically reverses direction, to direct current (DC), which flows in only one

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direction. The process is  
known as rectification.

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Moment Bar Viva

Questions and Answers  
(i) What is the principle  
of the moment bar?

Ans: The principle of

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moment. That is, the algebraic sum of the moment of the forces acting on a rigid body is zero. (ii) Why do you suspend the metre scale at the centre of gravity to find the weight of a body?

~~Rectifier Viva  
Questions and Answers  
Half, Full wave , Bridge  
Rectifier. Bridge~~

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Wave Rectifier is best because PIV is less, efficiency more, ripple factor less, TUF is more, peak factor less, transformer cost is less. ... Home / lab viva questions / DSP Part-I Part-I: Basics 1. Define discrete time and digital signal. Discrete time signal is continu...

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Why half-wave  
rectifiers are generally  
not used in dc power  
supply? The type of  
supply available from  
half-wave rectifier is not  
satisfactory for general

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power supply. That is why it is generally not used in dc power supply. Q6.

## ~~Rectifiers Questions and Answers~~ Electronics Post

### RECTIFIERS Questions

:-1. What is a dc power supply? The part of the equipment that converts ac into dc is called dc power supply. 2. Define

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And Answers

what is a rectifier? A  
rectifier is a device  
which converts  
alternating current (or  
voltage) into  
unidirectional current  
(or voltage). 3. What is  
PIV of a diode in a  
rectifier circuit?

~~300+ TOP~~

~~RECTIFIERS Questions  
and Answers Pdf~~

This action is known as

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Wave Rectification.

Circuit diagram of p-n junction diode as half-wave rectifier is shown

below: The input and output waveforms have been given below (ii)

Diode as a Full-Wave Rectifier In the full-wave rectifier, two p-n junction diodes, D 1 and D 2 are used. The circuit diagram or full-wave rectifier is shown below:

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~~Important Questions for  
CBSE Class 12 Physics  
Viva Questions  
And Answers~~

Questions & answers on Rectifiers, Clippers, and Clampers. 1. Define rectification ... Half-wave rectifier is a device which converts half of the input AC signal into pulsating output DC signal and the remaining half of the

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input AC signal is blocked. 14. Define full-wave rectifier. Full-wave rectifier is a device which converts the full input ...

~~Questions & answers on  
Rectifiers, Clippers, and  
Clampers~~

Half wave rectifier has a fair good voltage regulation mechanism.  
Half wave rectifier



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circuit requires only one diode. Half wave rectifier has an efficiency of 40.6%.

Half wave rectifier does not require center tapping of the secondary winding of transformer. DC saturation of the transformer core is a common problem in the half waver rectifier circuit.

# Where To Download Half Wave Rectifier 10 Difference Between Half Wave And Full Wave Rectifier ...

RMS voltage of a half wave rectifier,  $V_{RMS} = V_m / \sqrt{2}$ . Where  $V_m$  is the Maximum or peak voltage. Then the Peak factor of half wave rectifier can be calculated as,  $V_m / V_{RMS} = V_m / (V_m / \sqrt{2}) = \sqrt{2} V_m / V_m = \sqrt{2}$ .

Similarly, For a full

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Wave Rectifier, the RMS  
voltage  $V_{RMS} = V_m / \sqrt{2}$ . Therefore, the Peak  
factor value of full wave  
rectifier =  $V_m / V_m / \sqrt{2}$

~~Rectifier – Half wave  
rectifier and Full wave  
rectifier~~

half wave controlled  
rectifier using r-l load  
During the positive half  
cycle, the anode is

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connected to the positive terminal of the supply and the cathode is connected to negative terminal of supply and the thyristor is forward biased.

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A half wave rectifier is not special than a full wave rectifier in any terms. In order to build

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an efficient & smooth DC power supply, a full wave rectifier is always preferred. However, for applications in which a constant DC voltage is not very essential, you can use power supplies with half wave rectifier.

~~Half Wave Rectifier  
Circuit with Diagram  
Learn Operation ...~~

11. Define Ripple factor

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Wave Rectifier  
‘?’ and its values for  
the three types of  
rectifiers. Ans:Ripple  
factor can be defined as  
the variation of the  
amplitude of DC (Direct  
current) due to improper  
filtering of AC power  
supply. it can be  
measured by  $RF = v_{rms} / v_{dc}$ . Ripple factor for  
Half wave recifier is  
1.21, FWR is 0.482 and  
Bridge recifier is 0.482

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For a full bridge rectifier also, the PIV rating calculation is the same as half wave rectifier, that is:  $PIV = V_m$ , since  $V_m$  is the total voltage that's applied to the connected load as depicted in the following figure. Solved

# Where To Download Half Wave Rectifier Examples for Full Bridge Rectifier Network Viva Questions And Answers

~~Diode Rectification:  
Half Wave, Full Wave,  
PIV | Homemade ...~~

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## And Answers

~~Full Wave Rectifier I  
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Working Model I  
Sanjeev Kumar~~

Figure 4: Precision half-wave rectifier with DC smoothing filter.

Precision full-wave rectifiers, a.k.a. absolute

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value circuits A useful signal processing function is the absolute value circuit. The name, full-wave rectifier, is a special case application where the input signal is AC coupled to remove any DC component.

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