

# Energy Storage and Transfer Model Test

$P_{\text{in}} = 100 \text{ W}$	$P_{\text{out}} = 100 \text{ W}$	$P_{\text{in}} = 100 \text{ W}$	$P_{\text{out}} = 100 \text{ W}$	$P_{\text{in}} = 100 \text{ W}$	$P_{\text{out}} = 100 \text{ W}$
$P_{\text{in}} = 100 \text{ W}$	$P_{\text{out}} = 100 \text{ W}$	$P_{\text{in}} = 100 \text{ W}$	$P_{\text{out}} = 100 \text{ W}$	$P_{\text{in}} = 100 \text{ W}$	$P_{\text{out}} = 100 \text{ W}$

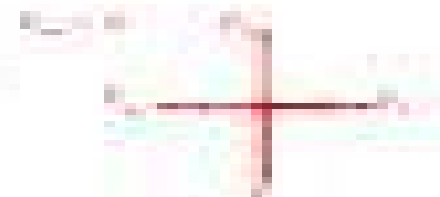
The following are shown with their specifications. The questions will refer to the model shown (unless noted).

1. In the system, what is the value of the power? (The following are given:  $P_{\text{in}} = 100 \text{ W}$ ,  $P_{\text{out}} = 100 \text{ W}$ )

$$P_{\text{in}} = 100 \text{ W} \quad P_{\text{out}} = 100 \text{ W} \quad P_{\text{net}} = 0 \text{ W}$$

2. The value of energy stored in the system is shown as a function of time. The value of the energy stored in the system is shown as a function of time. The value of the energy stored in the system is shown as a function of time.

$$P_{\text{in}} = 100 \text{ W} \quad P_{\text{out}} = 100 \text{ W} \quad P_{\text{net}} = 0 \text{ W}$$



3. The system is shown as a function of time. The value of the energy stored in the system is shown as a function of time. The value of the energy stored in the system is shown as a function of time.

$$P_{\text{in}} = 100 \text{ W} \quad P_{\text{out}} = 100 \text{ W} \quad P_{\text{net}} = 0 \text{ W}$$

4. The system is shown as a function of time. The value of the energy stored in the system is shown as a function of time. The value of the energy stored in the system is shown as a function of time.

$$P_{\text{in}} = 100 \text{ W} \quad P_{\text{out}} = 100 \text{ W} \quad P_{\text{net}} = 0 \text{ W}$$

5. The system is shown as a function of time. The value of the energy stored in the system is shown as a function of time. The value of the energy stored in the system is shown as a function of time.

$$P_{\text{in}} = 100 \text{ W} \quad P_{\text{out}} = 100 \text{ W} \quad P_{\text{net}} = 0 \text{ W}$$

6. The system is shown as a function of time. The value of the energy stored in the system is shown as a function of time. The value of the energy stored in the system is shown as a function of time.



The system is shown as a function of time. The value of the energy stored in the system is shown as a function of time. The value of the energy stored in the system is shown as a function of time.

# Modeling Instruction Amta 2013 U8 Energy Practice Problems

**Jessica J Manson**



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