

Time	LED Lamp	Diode Lamp	LED + Diode Lamp
	$P_{produce} (DC)$	$P_{deliver} (AC)$	$P_{produce} (DC)$
100%	7.99 w	0.00 kW	7.99 w
90%	7.98 w	0.00 kW	7.96 w
80%	7.2 w	0.00 kW	7.4 w
70%	3.1 w	0.00 kW	3.09 w
60%	1.9 w	0.00 kW	1.7 w
50%	1.29 w	0.00 kW	1.29 w
40%	0.73 w	0.001 kW	0.73 w
30%	0.57 w	0.001 kW	0.57 w
20%	0.251 w	0.001 kW	0.251 w
10%	0.21 w	0.001 kW	0.21 w

  

Time	$P_{produce} (DC)$	$P_{deliver} (AC)$	$P_{produce} (DC)$	$P_{deliver} (AC)$
100%	7.92 w	0.034 k	7.92 w	0.034 k
90%	7.91 w	0.034 k	7.91 w	0.034 k
80%	7.7 w	0.034 k	7.7 w	0.034 k
70%	3 w	0.038 k	3 w	0.038 k
60%	1.5 w	0.039 k	1.5 w	0.039 k
50%	1.25 w	0.039 k	1.25 w	0.039 k
40%	0.78 w	0.040 k	0.78 w	0.040 k
30%	0.516 w	0.040 k	0.516 w	0.040 k
20%	0.21 w	0.04 k	0.21 w	0.04 k
10%	0.20 w	0.04 k	0.20 w	0.04 k

LED و Power

حالة

Power على طاقة

PDC from PV

LED + Diode

$$\begin{aligned}
 P_{load} &= P_{pv} + P_{gnl.} \\
 &= 7.92 \text{ w} + 34 \text{ w} \\
 &= 41.92
 \end{aligned}$$

at  
100%  
radiation

Diode

$$\begin{aligned}
 P_{load} &= P_{pv} + P_{gnl} \\
 &= 7.99 + 33 \\
 &= 40.99
 \end{aligned}$$

$$\begin{aligned}
 \therefore P_{LED} &= (P_{LED + Diode}) - P_{Diode} \\
 &= 41.92 - 40.99 \approx 1 \text{ w}
 \end{aligned}$$