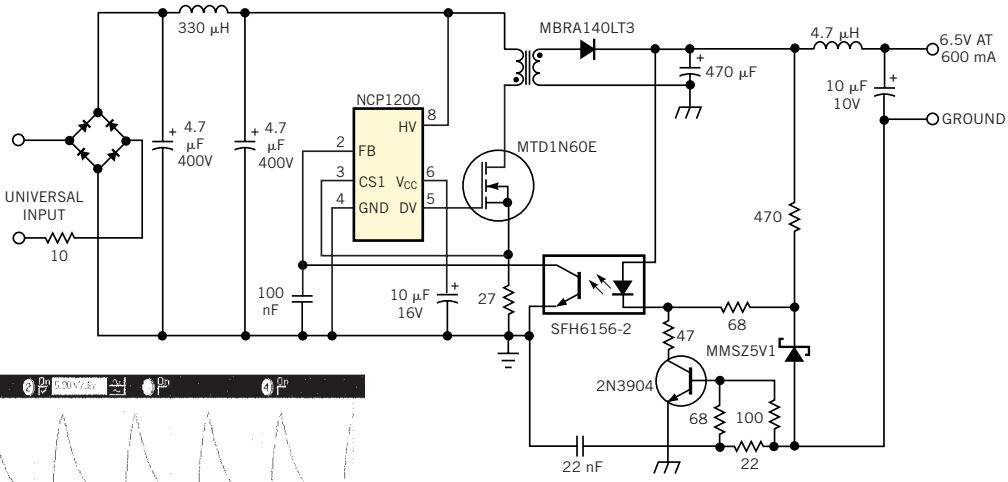
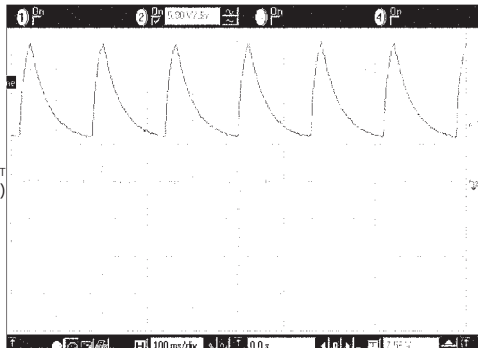
Figure 2

(a)



(b)



In this battery-charger circuit, the primary controllers operate without any auxiliary winding (a). Output-voltage runaway can damage the output capacitors if the condition lasts too long (b).