

# OVERCOMING KEY-OFF PARASITIC LOADS

**Key Off Parasitic Loads (KOPL):** The constant electrical load present on a battery while it is installed in a vehicle even when the ignition is turned off. It is one of the main problems affecting vehicle batteries. The load is created by the continuous operation of electrical appliances such as radios, computers, alarms, etc. A load that exceeds normal vehicle specifications (about 50 mA) could kill the battery.

**Over Coming KOPLs:** PulseTech can help prevent this problem two ways; by providing a charge to your battery and through the use of our patented ReNew-IT Pulse Technology® to keep your battery plates clean so they can accept, store and release a full charge all the time.

**Choose the right product for you:** To see which PulseTech product is right for the KOPL on your vehicle or equipment, use the chart below. Just match the KOPL in the left column to the amount of KOPL on your batteries. Then chose the performance system or charger to the right that is designed to off set that load.

Key off Parasitic Loads (Daily Cumulative)	2-Watt SolarPulse PN 735X302 2W, 250 mA*	5-Watt SolarPulse PN 735X305 5W, 350 mA*	6-Watt SolarPulse PN 735X613 6W, 365 mA*
20 MA (480 mAh)			
40 MA (960 mAh)			
60 MA (1.45 Ah)			
80 MA (1.93 Ah)			
100 MA (2.4 Ah)			

Completely off-sets KOPL     Provides partial off-set for KOPL.

\*Output based on six hours of usable sunlight.