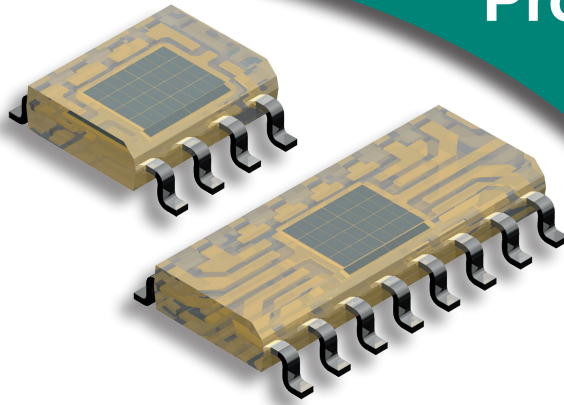


# CPC18xx

Solar Cell Family



## Features:

- Voltage Output: 4V & 8V
- Current Output: 50 $\mu$ A & 100 $\mu$ A
- Provides True Wireless Power
- Triggers with Sunlight or Artificial Light
- Semiconductor Small Size and Reliability
- Replacement of Discrete Components

## Applications:

- Portable Electronics
- Solar Battery Chargers
- Battery Operated Equipment
- Consumer Electronics
- Off-Grid/Remote Installation
- Wireless Sensors and Detection
- Self Powered Sunlight/Light Detection
- Self Powered Products

## IXYS IC Division Solar Cells

The IXYS IC Division Solar Cell is a revolutionary new product offering that addresses the diverse needs and applications of the growing low power solar energy market. This technology development is based on IXYS IC Division's strength in photovoltaic silicon processing and IC packaging. The Solar Cell product family offers two open circuit voltage levels (4 and 8 Volts) when activated by natural or artificial light. These voltage levels correlate to common circuit board power supply voltages making the solar cell ideal for battery charging applications and trickle charge power sources. Standard JEDEC SOIC package styles make these Solar Cell products ideal for prototype and large production usage.

The CPC1822 is one of the first members of the Solar Cell product family released into production. It produces a floating source open-circuit potential of 4V and a short-circuit current output of 50 $\mu$ A to provide a true wireless power source.

IXYS IC Division's flexible Solar Cell architecture facilitates product family growth by means of its scalable technology, thus paving the way for future solar cell offerings with different voltage and current ratings. Additionally, since there is excellent isolation between the various circuit elements on the Solar Cell's photovoltaic die, it is possible to add options such as power management or logic control circuitry with minimal incremental cost to the product.

