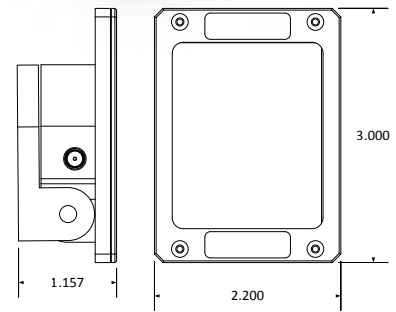




Solar Energy Harvester

Wireless sensors offer great promise for cost savings and downtime avoidance, but battery replacement can affect the value proposition in locations that are inaccessible or where batteries are precluded. KCF Technologies' Solar Energy Harvester (SH-1) provides a reliable solution for these cases.

SH-1 eliminates the need to change batteries by harvesting electrical energy from light. The Solar Energy Harvester captures visible electromagnetic radiation using an amorphous silicon solar cell for light levels as low as 500 Lux.



Solar Energy Harvester Specifications

Dimensions	76.5mm x 56.1mm x 29.5mm 3.00in x 2.20in x 1.16in
Cables	<ul style="list-style-type: none"> • 18 in and 3 ft options available • RG-174 coaxial cable
Operating Temperature	-40 to 85°C
Weight	146.8g 5.18oz
Enclosure Material	Aluminum
Output Power	Peak power depends on load and light level.
Output Voltage (Regulated)	3.3 Volts
Storage Capacitance	9.8mF
Minimum Environmental Energy Input	500 Lux

Applications

- Outdoor sensor installations for monitoring of bridges, buildings, and structures
- Pipeline or other system infrastructures
- Industrial wireless sensors where 500 Lux light levels are available [500 Lux is typical for indoor lighting; Direct sunlight can be over 90,000 Lux]

Features & Benefits

- Compact design with efficient use of solar cells
- Rugged metal casing intended for use in industrial and outdoor environments
- Hinged design with magnetic base enables custom orientation to maximize energy generation
No batteries required – extremely low power operation enables use with energy harvesters.