



Low Cost Solar Power Kit

for Low Power Wireless Sensors & Transmitters



FEATURES & BENEFITS

Provides Regulated 24 Vdc

Weather Resistant Enclosure

Preassembled, Prewired, Ready-To-Install

Deep-cycle Maintenance Free 12V Battery

APPLACATIONS

Wireless Sensors & Transmitters

Base Stations & Receivers

Low Power Sensors

Data Logging & Monitoring Systems

DESCRIPTION

Models come pre-wired and include a plastic, NEMA 4X, weatherproof enclosure with a gasketed hinged door. Each model includes all the required system components to get you up and running right out of the box. Just mount and connect the included solar panel, Install and connect your equipment and you done.

Solar Panel

High performance design that provide excellent low light performance. Panels feature a heavy duty extruded aluminum frame with high transparency, low-iron tempered glass.

Solar Charge Controller

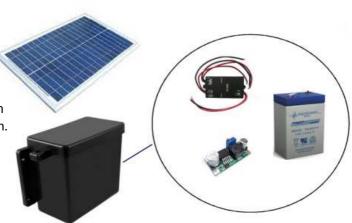
Specifically designed for efficient charging, the controller in this system features precise voltage and current regulation.

Deep-cycle SLA Battery

Maintenance free, long life, high-energy sealed Lead Acid design provides years of reliable service under the most extreme conditions.

Battery Enclosure

Made from Polyethylene plastic and features an economical, rugged, weather resistant design with a hinged lockable cover and external mounting ears.



Housing protects battery, charge controller and regulator

Series: LPSS-E24

GENERAL SPECIFICATIONS

Operating Temperature: -40 to 140 °F (-40 to 60 °C)

Enclosure: Plastic (Polyethylene)

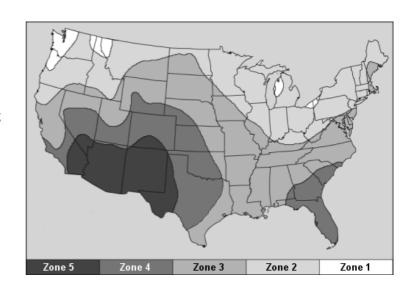
Min Battery Reserve Time: 5 days (120hrs)

Regulated Output: 12

Estimated Battery Life: 4+ Years*

How to Select the Correct Solar Power System for Your Application

- 1. Identify the zone your system will be installed from the map on the right.
- Use the formula below to determine the amp hours per day your equipment requires.
 This is done by multiplying the total operating current by the number of hours per day your equipment will be required to operate.
- Based on the zone the solar power system will be installed and the amp hour per day requirement, use the chart below to identify a corresponding "Output Capacity" letter.
- 4. Use the model number charts below to locate the correct "Output capacity" letter and select your model number.



Example:

(Total Load Current +10%) X (Equipment Run Time in Hours = Load-amp Hrs/day 0.008 + 0.0008 = 0.0088 (Amps) X 24 (Hrs) = 0.317 Load-amp Hrs/day

Based on this example for a 24 Vdc output system you would pick: Letter "D12" for Zone 5 and 4, "E12" for Zones 2 or 3, and "F12" for Zone 1.

Load-amp Hrs/day	0.125	0.186	0.250
Zone 1	C24	F24	124
Zone 2	B24	E24	H24
Zone 3	B24	E24	H24
Zone 4	A24	D24	G24
Zone 5	A24	D24	G24

Model Number	LPSS-E24-2W-5	LPSS-E24-3W-5	LPSS-E24-5W-5
Output Capacity (Letter Code)	A24	B24	C24
Solar Panel Capacity	2 Watt, 12V	3 Watt, 12V	5 Watt, 12V
Charge Controller	3 A	3 A	3 A
Battery Capacity	12V, 1.4 Ah	12V, 1.4 Ah	12V, 1.5 Ah
Regulated Output	24 Vdc	24 Vdc	24 Vdc
Enclosure Size	4"W x 6"L x 5.5"H (102 x 152 x 140mm)	4"W x 6"L x 5.5"H (102 x 152 x 140mm)	4"W x 6"L x 5.5"H (102 x 152 x 140mm)

Model Number	LPSS-E24-2W-5	LPSS-E24-3W-5	LPSS-E24-5W-5
Output Capacity (Letter Code)	D24	E24	F24
Solar Panel Capacity	2 Watt, 12V	3 Watt, 12V	5 Watt, 12V
Charge Controller	3 A	3 A	3 A
Battery Capacity	12V, 2.8 Ah	12V, 2.8 Ah	12V, 2.8 Ah
Regulated Output	24 Vdc	24 Vdc	24 Vdc
Enclosure Size	4"W x 6"L x 5.5"H (102 x 152 x 140mm)	4"W x 6"L x 5.5"H (102 x 152 x 140mm)	4"W x 6"L x 5.5"H (102 x 152 x 140mm)

Model Number	LPSS-E24-2W-5	LPSS-E24-3W-5	LPSS-E24-5W-5
Output Capacity (Letter Code)	G24	H24	124
Solar Panel Capacity	2 Watt, 12V	3 Watt, 12V	5 Watt, 12V
Charge Controller	3 A	3 A	3 A
Battery Capacity	12V, 5 Ah	12V, 5 Ah	12V, 5 Ah
Regulated Output	24 Vdc	24 Vdc	24 Vdc
Enclosure Size	4"W x 6"L x 5.5"H (102 x 152 x 140mm)	4"W x 6"L x 5.5"H (102 x 152 x 140mm)	4"W x 6"L x 5.5"H (102 x 152 x 140mm)

^{*}Battery life is dependent on total system load, depth of charge cycles and ambient temperature conditions.

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Note: Continued product improvements make specifications subject to change without notice. Check www.imagineinstruments.com for the latest product information and updates

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