



Series: **LPSS-WIRELESS**

Compact Solar Power System for Low Power Wireless Sensors/Transmitters



FEATURES & BENEFITS

- Provides Regulated 3.6 Vdc or 5 Vdc Output
- 6-day Minimum Reserve Backup
- Weatherproof NEMA Rated Enclosure
- Preassembled, Prewired, Ready-To-Install
- Deep-cycle Maintenance Free 6V Battery

APPLACATIONS

- Wireless Sensors
- Base Stations & Receivers
- Wireless Transmitters
- Wireless Repeaters

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.

Charge Controller

Specifically designed for 6 Volt System charging, the controller in this system features precise voltage and current regulation and over voltage cut off protection.

Deep-cycle SLA Battery

Maintenance free, long life, high-energy sealed 6 Volt Lead Acid design provides years of reliable service under the most extreme conditions.



Series: **LPSS-WIRELESS**

GENERAL SPECIFICATIONS

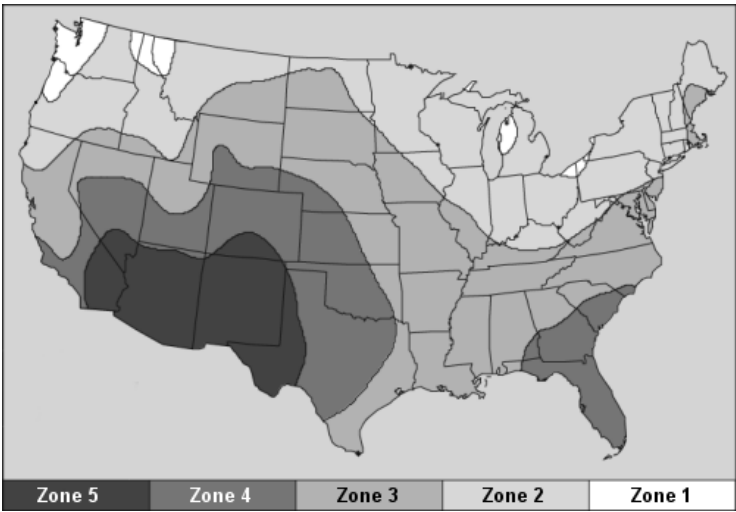
- Operating Temperature:** -40 to 140 °F (-40 to 60 °C)
Enclosure: PC/PBT Plastic NEMA 4X (IP66)
Min Battery Reserve Time: 6 days (144 hrs)
Regulated Output: 3.6 or 5.0 Vdc
Estimated Battery Life: 4+ Years*

Complete System Includes Solar Panel, Charge Controller, Deep-cycle Battery, weatherproof Plastic Enclosure, Earth Grounding Kit, Solar Power Cables, Panel and Enclosure Mounting Kit.

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.
2. 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.
3. 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
 $0.024 + 0.0024 = 0.0264$ (Amps) X 24 (Hrs) = 0.634 Load-amp Hrs/day

Based on this example for a 3.6 Vdc output system you would pick:
Letter "C1" for Zone 5 and 4, "C2" for Zones 2 or 3, and "C3" for Zone 1.

Based on this example for a 5.0 Vdc output system you would pick:
Letter "G1" for Zone 5 and 4, "G2" for Zones 2 or 3, and "G3" for Zone 1.

Load-amp Hrs/day	3.6 Vdc Output Codes					5.0 Vdc Output Codes			
	0.25	0.50	0.75	1.0		0.25	0.50	0.75	1.0
Zone 1	A3	B3	C3	D3		E3	F3	G3	H3
Zone 2	A2	B2	C2	D2		E2	F2	G2	H2
Zone 3	A2	B2	C2	D2		E2	F2	G2	H2
Zone 4	A1	B1	C1	D1		E1	F1	G1	H1
Zone 5	A1	B1	C1	D1		E1	F1	G1	H1

Model Number	LPSS-W-2W-014-36	LPSS-W-2W-025-36	LPSS-W-2W-045-36
Output Capacity (Letter Code)	A1	B1	C1
Solar Panel Capacity	2 Watt, 12V	2 Watt, 12V	2 Watt, 12V
Charge Controller	2 A	2 A	2 A
Battery Capacity	6V, 1.4 Ah	6V, 2.5 Ah	6V, 4.5 Ah
Regulated Output	3.6 Vdc	3.6 Vdc	3.6 Vdc
Enclosure Size	5.9 X 5.9 x 3.5" (150 x 150 x 90mm)	5.9 X 5.9 x 3.5" (150 x 150 x 90mm)	5.9 X 5.9 x 3.5" (150 x 150 x 90mm)

Model Number	LPSS-W-2W-065-36	LPSS-W-3W-014-36	LPSS-W-3W-025-36
Output Capacity (Letter Code)	D1	A2	B2
Solar Panel Capacity	2 Watt, 12V	3 Watt, 12V	3 Watt, 12V
Charge Controller	2 A	2 A	2 A
Battery Capacity	6V, 6.5 Ah	6V, 1.4 Ah	6V, 2.5 Ah
Regulated Output	3.6 Vdc	3.6 Vdc	3.6 Vdc
Enclosure Size	5.9 X 5.9 x 3.5" (150 x 150 x 90mm)	5.9 X 5.9 x 3.5" (150 x 150 x 90mm)	5.9 X 5.9 x 3.5" (150 x 150 x 90mm)

Model Number	LPSS-W-3W-045-36	LPSS-W-3W-065-36	LPSS-W-5W-014-36
Output Capacity (Letter Code)	C2	D2	A3
Solar Panel Capacity	3 Watt, 12V	3 Watt, 12V	5 Watt, 12V
Charge Controller	2 A	2 A	2 A
Battery Capacity	6V, 4.5 Ah	6V, 6.5 Ah	6V, 1.4 Ah
Regulated Output	3.6 Vdc	3.6 Vdc	3.6 Vdc
Enclosure Size	5.9 X 5.9 x 3.5" (150 x 150 x 90mm)	5.9 X 5.9 x 3.5" (150 x 150 x 90mm)	5.9 X 5.9 x 3.5" (150 x 150 x 90mm)

Model Number	LPSS-W-5W-025-36	LPSS-W-5W-045-36	LPSS-W-5W-065-36
Output Capacity (Letter Code)	B3	C3	D3
Solar Panel Capacity	5 Watt, 12V	5 Watt, 12V	5 Watt, 12V
Charge Controller	2 A	2 A	2 A
Battery Capacity	6V, 2.5 Ah	6V, 4.5 Ah	6V, 6.5 Ah
Regulated Output	3.6 Vdc	3.6 Vdc	3.6 Vdc
Enclosure Size	5.9 X 5.9 x 3.5" (150 x 150 x 90mm)	5.9 X 5.9 x 3.5" (150 x 150 x 90mm)	5.9 X 5.9 x 3.5" (150 x 150 x 90mm)

Model Number	LPSS-W-2W-014-50	LPSS-W-2W-025-50	LPSS-W-2W-045-50
Output Capacity (Letter Code)	E1	F1	G1
Solar Panel Capacity	2 Watt, 12V	2 Watt, 12V	2 Watt, 12V
Charge Controller	2 A	2 A	2 A
Battery Capacity	6V, 1.4 Ah	6V, 2.5 Ah	6V, 4.5 Ah
Regulated Output	5.0 Vdc	5.0 Vdc	5.0 Vdc
Enclosure Size	5.9 X 5.9 x 3.5" (150 x 150 x 90mm)	5.9 X 5.9 x 3.5" (150 x 150 x 90mm)	5.9 X 5.9 x 3.5" (150 x 150 x 90mm)

Model Number	LPSS-W-2W-065-50	LPSS-W-3W-014-50	LPSS-W-3W-025-50
Output Capacity (Letter Code)	H1	E2	F2
Solar Panel Capacity	2 Watt, 12V	3 Watt, 12V	3 Watt, 12V
Charge Controller	2 A	2 A	2 A
Battery Capacity	6V, 6.5 Ah	6V, 1.4 Ah	6V, 2.5 Ah
Regulated Output	5.0 Vdc	5.0 Vdc	5.0 Vdc
Enclosure Size	5.9 X 5.9 x 3.5" (150 x 150 x 90mm)	5.9 X 5.9 x 3.5" (150 x 150 x 90mm)	5.9 X 5.9 x 3.5" (150 x 150 x 90mm)

Model Number	LPSS-W-3W-045-50	LPSS-W-3W-065-50	LPSS-W-5W-014-50
Output Capacity (Letter Code)	G2	H2	E3
Solar Panel Capacity	3 Watt, 12V	3 Watt, 12V	5 Watt, 12V
Charge Controller	2 A	2 A	2 A
Battery Capacity	6V, 4.5 Ah	6V, 6.5 Ah	6V, 1.4 Ah
Regulated Output	5.0 Vdc	5.0 Vdc	5.0 Vdc
Enclosure Size	5.9 X 5.9 x 3.5" (150 x 150 x 90mm)	5.9 X 5.9 x 3.5" (150 x 150 x 90mm)	5.9 X 5.9 x 3.5" (150 x 150 x 90mm)

Model Number	LPSS-W-5W-025-50	LPSS-W-5W-045-50	LPSS-W-5W-065-50
Output Capacity (Letter Code)	F3	G3	H3
Solar Panel Capacity	5 Watt, 12V	5 Watt, 12V	5 Watt, 12V
Charge Controller	2 A	2 A	2 A
Battery Capacity	6V, 2.5 Ah	6V, 4.5 Ah	6V, 6.5 Ah
Regulated Output	5.0 Vdc	5.0 Vdc	5.0 Vdc
Enclosure Size	5.9 X 5.9 x 3.5" (150 x 150 x 90mm)	5.9 X 5.9 x 3.5" (150 x 150 x 90mm)	5.9 X 5.9 x 3.5" (150 x 150 x 90mm)

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

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e-mail: info@imagineinstruments.com :: www.imagineinstruments.com

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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