Dyna-mo Vision System
Solar Power

The Dyna-mo Vision System can be powered via a solar power system.

Based on our system testing we would recommend

- 400W / 200Ah 12v LiFeP04 Solar Power System - DI-SP-HP4

200W / 100Ah Solar Power System

Device			**Calculation Date**	**16/11/2022**
Vision 1 Camera System				
Power Consumption		27 Ah	12 Volts	
Solar Power System				
Dyna-mo System	DI-SP-HP4 -	400W Solar System - LiFeP04 Battery		
Battery		200 Ah	12 Volts	
Solar Panel		400 Watts		
Solar Power Controller		Renogy MPPT	95% Efficiency	
Battery Technology		LiFeP04		
Battery Life		7.4 Days		
Peak Sun Hours Charge		0.99 Hours		
Daily Battery Consumption		13.50%		
Annual UK Performance				
Anticipated Power Loss*		NONE	Days < 24hrs Power	0
Anticipated Power Loss @	81%	NONE	Days < 24hrs Power	0
*based on the average UK peak sun hours per day				
Lowest Battery Charge		77.92%		
Lowest Battery Charge @	81%	2.60%		

Average Peak Sun Hours UK		81%
January	1.39 Hrs	1.13 Hrs
February	1.85 Hrs	1.50 Hrs
March	2.57 Hrs	2.08 Hrs
April	4.08 Hrs	3.30 Hrs
May	4.80 Hrs	3.89 Hrs
June	4.59 Hrs	3.72 Hrs
July	4.84 Hrs	3.92 Hrs
August	4.65 Hrs	3.77 Hrs
September	3.60 Hrs	2.92 Hrs
October	2.58 Hrs	2.09 Hrs
November	1.57 Hrs	1.27 Hrs
December	0.94 Hrs	0.76 Hrs

200w Solar Panel Mount with 76mm Pole Clamp Kit

All calculations are based on a unrestricted skyline with the solar panel installed at a 45° facing due South, unless adjusted peak sunlight hours were manually entered.
This document is intended for guidance purposes only.
Peak sun hours cannot be guaranteed and may vary depedent on geographical location and local weather conditions.

DI-SP-LI3 – 120W/50Ah LiFeP04 Solar Power System.

Enclosure dimensions:	600 x 400 x 250 mm
Enclosure weight:	45kg
Solar panel dimensions:	1724 x 1134 x 35 mm

Installation Accessories

DI-GC-PC	76mm Pole Clamp Kit
DI-SP-EM	400W Solar Panel Mount
DI-PS-WB	Power System Wall Brackets

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