

Hardware Data Sheet

The SolarSPELL digital library provides access to information and digital skill-building for the half of the world still offline.

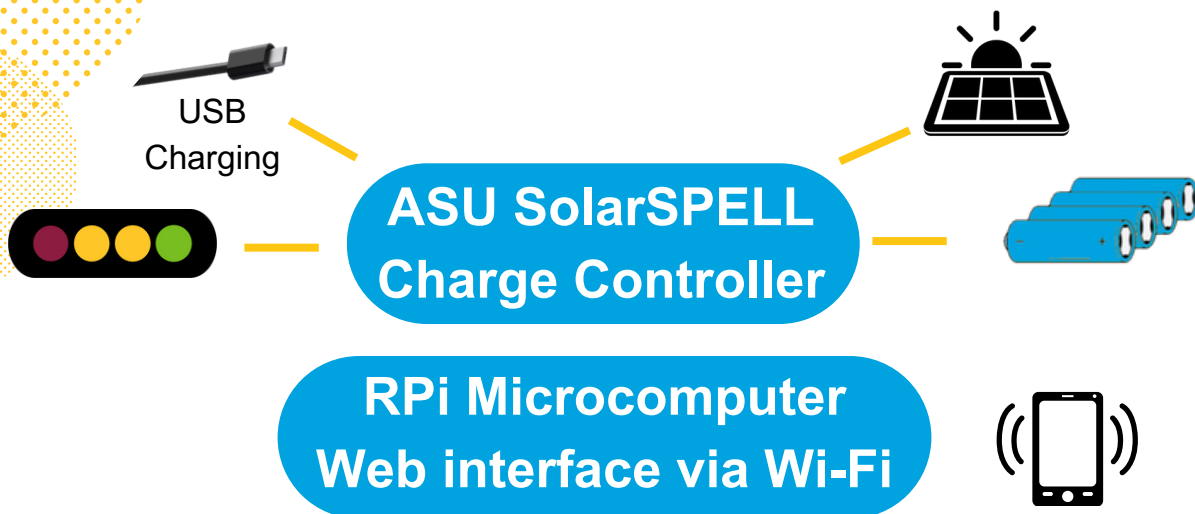


SolarSPELL's new digital library hardware is now even easier to use.

Patent-pending charge control technology

allows users to check how much battery life is left using a display on the case or our offline web interface.

The new case is both waterproof and shockproof, and it includes usage instructions on the back.



Battery		Charging	
Capacity (mah)	8000	Fastest Solar Charge	4 hours
Voltage (V)	3.7	Fastest USB charge	12 hours
Draw (amps)	1	Solar PV Panel	
Life cycle (charge cycles)	2000	Voltage	12
Cells	Four 18650 Style	Wattage	10
Battery material	lithium-ion	Waterproof	IP67
Charge controller		UV	ETFE coating
PV Panel Input (v)	3-30	PV Cells	High efficiency monocrystalline
RPi interface	HAT style	Complete System	
Max system ampere	3	Weight	2.8 lbs./1.27 kg
USB-C Charging	1 amp max	Material (housing)	+90% Recycled Plastics
MPPT	Yes	Size	10x12x1.5 in/25x30x4 cm
Microcontroller	Digital interface to MPPT	Life Span	5 years
Digital user interface	Web page + LED		
On/Off	Intelligent timed switch		
ASU Designed	Yes		
Patent Pending	Yes		