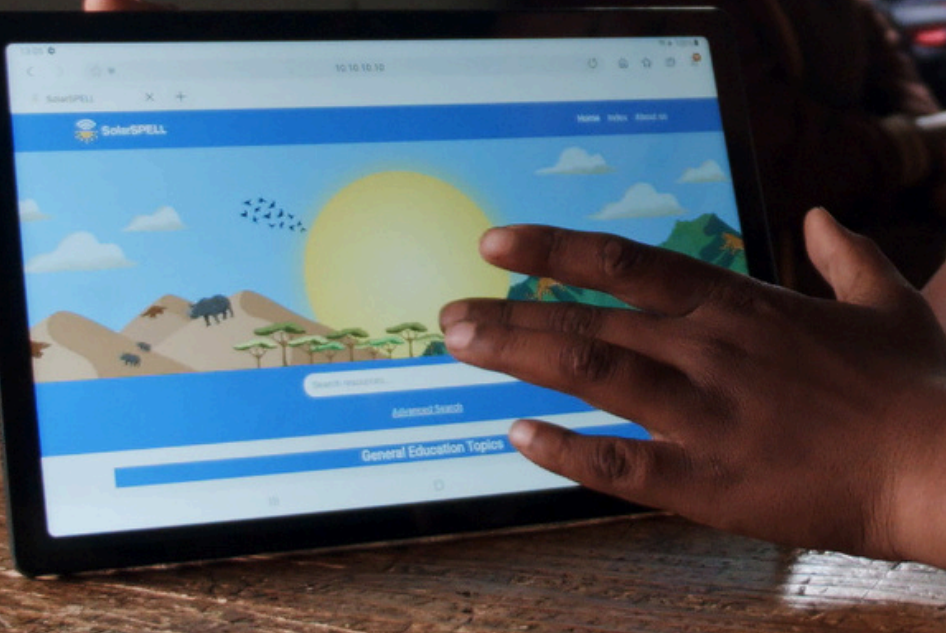# Hardware Data Sheet

The SolarSPELL digital library provides access to information and digital skill-building for the half of the world still offline.
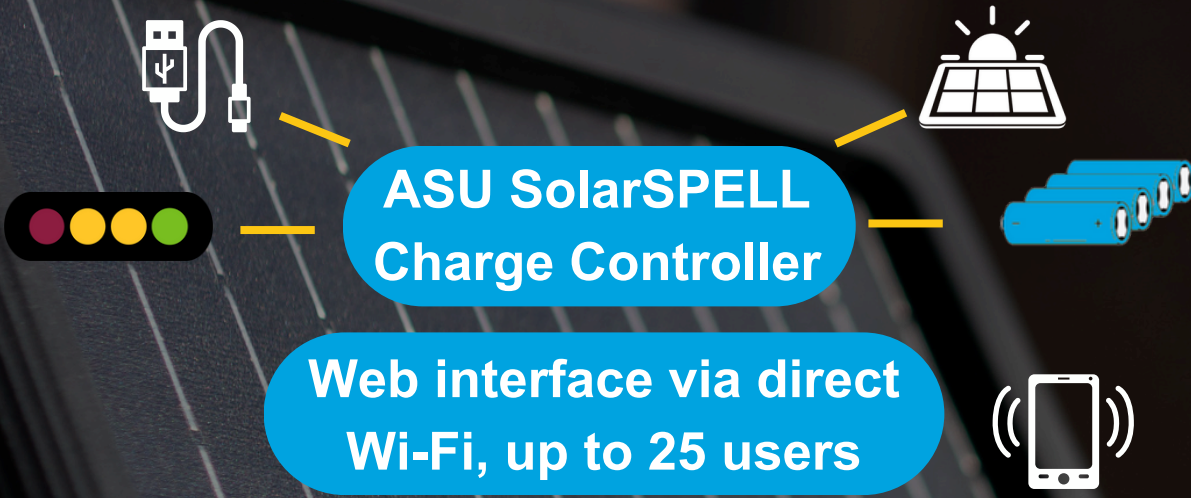
SolarSPELL's new digital library hardware is now even easier to use.

Intelligent charge control technology optimizes energy use and allows users to check how much battery life is left using a display on the case or our offline web interface.

The streamlined case is water-, shock-, dust- and heat-resistant, and it includes usage instructions on the back.

ASU SolarSPELL Charge Controller

Web interface via direct Wi-Fi, up to 25 users

Battery			Charging		
Capacity (mah)	10,000		Fastest Solar Charge	4 hours	
Voltage (V)	3.7		Fastest USB charge	8 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 Charging	1.5 amp max		Material (housing)	+90% Recycled Plastics	
MPPT	Yes		Size	10x12x1.5 in/25x30x4 cm	
Digital user interface	Web page + LED		Life Span	10 years	
On/Off	Intelligent timed switch				
ASU Engineered	Yes				

Powered by Raspberry Pi