

Controller Comparison: SunSaver (Gen 3) vs. SHS

	SunSaver (Gen 3)	SHS
Product Positioning	Industrial, leisure	Rural electrification
Applications	telecom, oil/gas, instrumentation, caravan, boats	solar home systems in developing countries
Design objective	high reliability, better battery charging	high reliability, better battery charging low cost
Current Ratings	6, 10 and 20 amps	6 and 10 amps
Voltage Ratings	Voltage Ratings 12 or 24V versions	12V only
Warranty	5 years	2 years
Certifications	UL 1741, CE, hazardous locations, NEC	CE, World Bank
Low voltage disconnect	yes, on "L" versions	yes; blinks loads as LVD warning (not suitable for industrial loads)
Lighting Control	None	Dusk til Dawn on Night Light (NL) versions
Switching	positive leg...complies with NEC	negative leg...does not comply with NEC*
Battery type	2 choices optimized for sealed or flooded	no battery type select
High temperature Protection	Will shut off until cool	None
Charging Status LED	Multi Color Green and Red - 4 indications	Green - 2 indications
3 LED Battery Charging Level	Green Yellow Red - 14 indications	Green Yellow Red - 6 indications
Regulation accuracy	more accurate	less accurate
Tropicalization	epoxy encapsulation	conformal coating on circuit board
Enclosure	annodized aluminum	plastic
Temperature Rating	rated -40C to +60C	rated -25C to +50C
Terminal Size	to 5.2 mm; #10 AWG	to 4 mm; #12 AWG

* if the system is grounded in more than 1 point, charging or load control may be disabled