

# Solar charge controller – HLS

## CC-HLS-12V-8A



Product Name	<b>Solar charge controller for Home Lighting System</b>
System features	<ul style="list-style-type: none"> <li>– Microprocessor controlled zero-drop design</li> <li>– 3 stage battery charging for longer battery life</li> <li>– Selectable battery type selection – Flat / Tubular / SMF</li> <li>– Settable DC load operation – Dusk to Dawn / Always ON</li> <li>– 4 DC load connectors for use with multiple appliances</li> </ul>

### Technical Specifications

Model	CC-HLS-12 – 8
Battery voltage	12V DC
Maximum charging current	8 Ampere
Maximum Solar Panel Input $V_{oc}$	35 Volts DC
Battery charging stages	Boost, Absorption and Trickle charging
Battery type selection	Flat cell, Tubular, Maintenance free (SMF)
Boost charge voltage	14.4 V
Trickle charge voltage	13.5 V
Charging current control method	PWM at approx. 160 Hz
Maximum DC Load current (total)	5 Amp (protected with fuse)
DC load Low battery disconnect	$V_{batt}$ less than 10.5 V
DC load Low battery restore voltage	$V_{batt}$ more than 12V
Protections	Reverse polarity protection for battery and solar panel, short circuit protection, battery overcharge / deep discharge protection, PV reverse current flow protection.
Humidity Range	0 to 95% (non-condensing)
Temperature range	0 to 60 °C
Product Warranty	1 Year against manufacturing defect

\* In process of product enhancement, technical specifications can change without notice