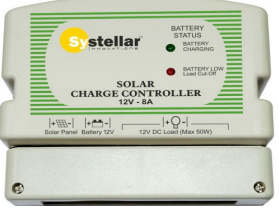






## SYSTEMSTAR PWM & MPPT SOLAR CHARGE CONTROLLER RANGE

S.No.	Parameters	PWM-HLS model Charge controller	PWM-PS model Charge controller	PWM-PPL model Charge controller	MPPT Solar Charge Controller	PWM High Voltage Controller
						
1	Models Available	12V 8A	12V / 24V autoselect - 10A & 20A	12V / 24V autoselect - 20A & 40A 36V 20A & 40A 48V 20A	12V / 24V autoselect - 20A & 40A 36V 20A & 40A 48V 20A & 40A	72V to 240V - 20A & 40A
2	Technology	Pulse Width Modulation (PWM)	Pulse Width Modulation (PWM)	Pulse Width Modulation (PWM)	Maximum Power Point Tracking (MPPT)	Pulse Width Modulation (PWM)
3	Max. PV open circuit voltage	35V	50V	12V/24V Model = 50V 36V, 48V Model = 90V	12V/24V Model = 70V 36V, 48V Model = 100V Special Model with max. Voc=150V	Model specific
4	DC Load running capability	Yes (4 DC load terminals)	No	Yes	Yes	No
5	Hybrid functionality #	No	YES - In all models	YES - In all models	YES - In all models	YES - In all models
6	Charging Algorithm	3 Stage Charging - Boost, Absorption, Trickle charging	3 Stage Charging - Boost, Absorption, Trickle charging	3 Stage Charging - Boost, Absorption, Trickle charging	4 Stage Charging - Deep discharge, Boost, Absorption, Trickle	3 Stage Charging - Boost, Absorption, Trickle charging
7	Battery bank Equalisation mode	No	No	No	Yes	Yes
8	Deep discharge battery charging	No	No	No	Can charge a deep discharged battery	No
9	Display Type	2 LED - Red & Green	Single color LED	Twin color LED	2 line LCD display	2 line LCD display
10	Indications on display	Battery connected, battery charging, Battery fully charged, Battery low, Fuse blown	Battery connected, battery charging, Battery fully charged	Battery connected, battery charging, Battery fully charged, Battery low, Fault	PV voltage, PV current, PV wattage, Daily Solar power generated, Battery voltage, Battery charging current, Battery charging mode, Ambient temperature, Load current, Cumulative Solar power generated, Power saver/Night light mode	PV wattage, Daily Solar power generated, Battery voltage, Battery charging current, Battery charging mode, Ambient temperature, Cumulative Solar power generated, Power saver/Night light mode
11	Power meter in-built	No	No	No	Yes - Displays solar power generation data on LCD display	Yes - Displays solar power generation data on LCD display
12	User programmable features	Battery type (Flat plate / Tubular / SMF), DC Load operation (Dusk-to-Dawn / Always On)	Battery type (Flat plate / Tubular / SMF), Power Saver voltage setting	Battery type (Flat plate / Tubular / SMF), Power Saver voltage setting	Battery charging voltages, Maximum charging current, DC Load running time, Power Saver voltage setting	Battery charging voltages, Maximum charging current, Power Saver voltage setting
13	Battery type setting	Internal jumpers	Internal jumpers	External jumpers	Using LCD display and 3 buttons on front panel	Using LCD display and 3 buttons on front panel
14	Optional accessories	None	<b>Power Saver</b> (Converts normal inverter into Solar inverter)	<b>Power Saver</b> (Converts normal inverter into Solar inverter), <b>Battery temperature Sensor</b> (For temperature compensated battery charging)	<b>Power Saver</b> (Converts normal inverter into Solar inverter), <b>Night light switch</b> (Any AC load can be programmed to run for limited time after sunset), <b>Battery temperature Sensor</b> (For temperature compensated battery charging)	<b>Power Saver</b> (Converts normal inverter into Solar inverter), <b>Night light switch</b> (Any AC load can be programmed to run for limited time after sunset), <b>Battery temperature Sensor</b> (For temperature compensated battery charging)
15	Battery deep-discharge protection	Shuts down DC load is battery voltage below 10.5V	N/A as DC load running function not present	Shuts down DC load is battery voltage below 10.5V	Shuts down DC load is battery voltage below 10.5V	N/A as DC load running function not present
16	Protection features	Battery overcharge protection, wrong polarity protection, short-circuit protection, low battery protection, Lightning protection MOV, reverse current flow protection	Excess PV panel protection, Battery overcharge protection, wrong polarity protection	Excess PV panel protection, Battery overcharge protection, wrong polarity protection, short-circuit protection, low battery protection, Lightning protection MOV, reverse current flow protection	Excess PV panel protection, Battery overcharge protection, wrong polarity protection, short-circuit protection, low battery protection, Lightning protection MOV, reverse current flow protection	Excess PV panel protection, Battery overcharge protection, wrong polarity protection, Lightning protection MOV, reverse current flow protection
17	Product warranty	1 Year	1 Year	1 Year	2 Years	1 Year

Product specifications can change without notice for product enhancement

# Power Saver accessory required