

GREEN-60A-150C-xL
GREEN-80A-220C-xL



**SPS MPPT
MULTI STAGE INTELLIGENT
CHARGING TECHNOLOGY**



- ☞ SPS MPPT solar charge controller Converts your normal/ existing inverter into a solar inverter.
- ☞ It is extremely reliable & has a long operational life.
- ☞ It can be used with a 12V / 24V / 36V / 48V / 60V / 72V battery bank.
- ☞ It has a smart sensing feature and will auto detect the battery voltage on connecting to a battery bank or can override this feature via settings probe.
- ☞ It has many advanced protection features like high charging current, high charging voltage, solar reverse polarity protection, reverse current flow protection from battery to solar panels and over temperature protection.
- ☞ The default parameters of this MPPT charge controller can be easily adjusted with given settings probe for the usage of Tubular /Lithium/Smf batteries.
- ☞ The unique 'Idle mode' in this Mppt maintain the battery at bit lower voltage (idle float) during no usage days & there by avoiding the water loss and keep the battery healthy for longer period of time.



SONIC POWER SOLUTIONS

+91 854 773 9041
+91 854 707 5041

www.sonicpowersolutions.com

info@sonicpowersolutions.com

Elthuruth, Kodungallur,
Thrissur Dist. Kerala, India, Pin : 680664

TECHNICAL INFORMATION
GREEN-60A-150C-xL, 80A-220C-xL



General					
Nominal System Voltage	12V DC	24V DC	36V DC	48V DC	72V DC
Battery Select	Auto Select / Manual Select (Default : Auto Select)				
Battery Type	Tubular / SMF / Lithium (Default : Tubular)				
Battery Charging Modes	Multi Stage (Bulk / Absorption / Float / Idle)				
Solar Charger Type	MPPT				
Model GREEN-60A-150C-xL					
Solar panel (Max.)	1000W	2000W	2500W	3000W	4000W
Max. Solar input Voltage(Voc)	15 - 55V	30 - 110V	60 - 110V	60 - 150V	90 - 150V
Output Current Max.	60A (Adj 10 - 60Amps)				
Weight	4.8Kg				
Dimension (L x W x H) mm	130 x 200 x 370				
Efficiency	>98.9%				
Model GREEN-80A-220C-xL					
Solar panel (Max.)	1500W	2500W	3500W	4500W	5500W
Max. Solar input Voltage(Voc)	15 - 55V	30 - 110V	60 - 150V	60 - 220V	90 - 220V
Output Current Max.	80A (Adj 10 - 80Amps)				
Weight	6.1Kg				
Dimension (L x W x H) mm	130 x 220 x 420				
Efficiency	>98.9%				
Battery Parameters Default, (Adjustable)					
Bulk	14.8V, (12 - 17V)	29.6V, (24 - 34V)	44.4V, (36 - 51V)	59.2V, (48 - 68V)	88.8V, (72 - 102V)
Float	14.4V (12 - 17V)	28.8V, (24 - 34V)	43.2V, (36 - 51V)	57.6V, (48 - 68V)	86.4V, (72 - 102V)
Idle	14.0V (12 - 17V)	28.0V, (24 - 34V)	42.0V, (36 - 51V)	56.0V, (48 - 68V)	84.0V, (72 - 102V)
Idle Opt	12.5V (12 - 17V)	25.0V, (24 - 34V)	37.5V, (36 - 51V)	50.0V, (48 - 68V)	75.0V, (72 - 102V)
Equalization	15.2V (12 - 17V)	30.4V, (24 - 34V)	45.6V, (36 - 51V)	60.8V, (48 - 68V)	91.2V, (72 - 102V)
Relay on	14.0V (10 - 17V)	28.0V, (20 - 34V)	42.0V, (30 - 51V)	56.0V, (40 - 68V)	84.0V, (72 - 102V)
Relay off	11.5V (10 - 17V)	23.0V, (20 - 34V)	34.5V, (30 - 51V)	46.0V, (40 - 68V)	69.0V, (72 - 102V)
*Equalization	Default : Off (On / Off)				
Equalization Time	Default : 120 Minute (10 - 600 Minute)				
Absorption Time	Default : 10 Minute (10 - 600 Minute)				
Display Parameters					
LCD Type	GREEN- xxA - xxxC - 1L = Single Line		GREEN - xxA - xxxC - 4L = Four Line		
LCD Display Parameters	Battery Volt , Charging Current , Solar Volt , Solar Input Current , Solar Peak Watts , Charging Mode Daily Unit , Total Unit , Solar Output Watts , Charging Modes , Absorption Time , Temperature				
LED Indication	Solar Present , Solar Charging , Excess , Relay , Bulk , Absorption , Float , Idle				
Protections					
Protections	SPV Over Current , Battery Over Current , SPV Reverse Current SPV Reverse Polarity , Over Temperature, Battery Over Volt				
Cooling	Temp Controlled, Fan				
Cooling Fan	Fan On > 70°C		Fan Off < 60°C		
Fixing	Wall Mounted				

*Battery equalization process is advised to use under the supervision of technician only.
*Specification are subject to change without prior notice due to constant improvement in design & technology.