

Technical Features

SO5144

Type	MPPT SOLAR CHARGE CONTROLLER
Model	SO5144
<u>INPUT</u>	
Input Voltage Range	100V ~ 300V (Wide input voltage range)
	180V ~ 260V (Normal input voltage range)
Nominal Input Voltage(s) Supported	220V AC , 50Hz
Input connection type	Hard Wire
BATTERY Full Load Runtime (minutes)	Depends on Load & Battery AH
No of Battery	12
<u>Solar Charge Controller</u>	
Type	MPPT/PWM
Max.PV Open Circuit Array Volatge	264VDC
Charge Algorithm	3-stage Bulk / Acceptance / Float Plus Equalize
LCD Display	Backlit, Alphanumeric Display showing battery voltage, DC amperage, Cumulative KWH hours
<u>OUTPUT</u>	
Output Volt Amp Capacity (VA)	5000
Output Watt Capacity (watts)	4000W
DC System Voltage (VDC)	144V
Load Capacity	>110% faulty after 300ms
Phases	1Phase - 3 Wire (L.N.E)
Output AC waveform	Pure Sine Wave
Efficiency	> 88%
<u>GENERAL</u>	
LCD / LEDs Indications	UPS ON (Yellow), Battery Low (Red), Mains ON (Green),Charging (Green), Overload(Red)
Alarms	Audible alarm indicates power failure and overload conditions
Switches	1)Switch control off / on power status
	2)Switch for mains input voltage range
	3)Switch to select the maximum charging voltage
Protection	> 300% Load (with manual reset function)
Cooling Method	Forced air cooled
Transfer Time	Battery to line mode : 300 milliseconds / Line to battery mode : 300 milliseconds
Housing Material	Powder coated / painted MS
<u>ENVIRONMENTAL</u>	
Operating Temperature Range	0°C to 50°C
Relative Humidity	95% (non-condensing)
Degree of Protection	IP 20
<u>BATTERY</u>	
No of Battery	12
Battery Charging Profile(Boost /Foat)	Suitable according to Battery type (eg :VRLA/SMF/Wet Lead Acid

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Max Charging Current(when battery is fully discharge)	10A \pm 2amp
<u>SPECIAL FEATURES</u>	
Cold Start (startup in battery mode during a power failure)	Cold-start operation supported
Charge End Voltage	Grid charging stop when battery reaches 13.8V \pm 0.2V and transfer to backup mode (per battery)
Grid Recharge Voltage	Grid charging starts when battery reaches 11V \pm 0.2V and transfer to grid (per battery)
<u>CERTIFICATIONS</u>	
Quality Certifications	ISO 9001:2008
<u>WARRANTY</u>	
Product Warranty Period	1 - year limited warranty

We are committed to continuous development of our products, the specification are subject to change without notice.