

Technical Features

SO5096

Type	MPPT SOLAR CHARGE CONTROLLER
Model	SO5096
<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	8
<u>Solar Charge Controller</u>	
Type	MPPT/PWM
Max.PV Open Circuit Array Volatge	176VDC
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)	96V
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	8
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
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SPECIAL FEATURES

Cold Start (startup in battery mode during a power failure)	Cold-start operation supported
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Charge End Voltage	Grid charging stop when battery reaches 13.8V \pm 0.2V and transfer to backup mode (per battery)
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Grid Recharge Voltage	Grid charging starts when battery reaches 11V \pm 0.2V and transfer to grid (per battery)
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CERTIFICATIONS

Quality Certifications	ISO 9001:2008
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WARRANTY

Product Warranty Period	1 - year limited warranty
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We are committed to continuous development of our products, the specification are subject to change without notice.