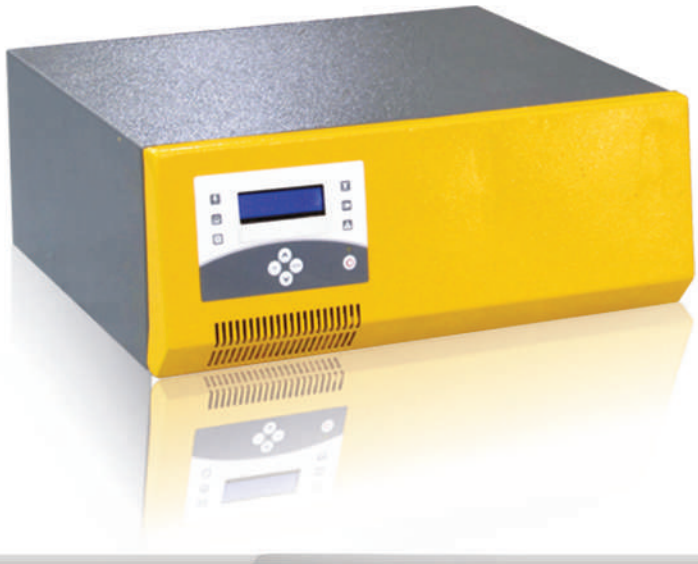
STATCON ENERGIAA
Inspire • Innovate • Implement

BULLET 3024

TECHNICAL SPECIFICATIONS



THE ALL-POWERFUL SOLAR MPPT INVERTER RUNNING ON JUST 2 BATTERIES

- Runs 1 HP Pump + ALL household loads
- High-quality IGBT-based MPPT design
- Quick Battery Charging from Solar/ Grid: upto 65A/ 18A
- Can connect to PV Modules upto 2000w - Poly/ Mono/ Mono Perc
- Also works for non-Solar home applications
- Compact, no-plastic, all-metal shell for toughness & long life
- 'LOADS' OF SMARTNESS: Multiple modes of operation, reduced grid consumption, PV-generation data stored"

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BULLET 3024
MPPT SOLAR PCU

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TECHNICAL SPECIFICATIONS

PARAMETER	RATING
Model Number/Name	BULLET 3024
Nominal DC Voltage	24 Volt
MPPT CHARGER	
Type of Charger	MPPT
No of MPPT Channels	One
Switching Element	IGBT
Max. Connected PV Modules	2000 Watts
Max MPPT Output Current	65 Amps
Max Battery Charging Current (Settable)	65 Amps
Max. Open Circuit PV Voltage	105
MPPT Voltage Range	35-82 Volts
Max. Input PV Current	50 Amps
MPPT Peak Efficiency	93%
SOLAR INVERTER	
Input Power at Peak Load	2100 Watts
Discharging Battery Current at Peak Load	87 Amps
Switching Element	MOSFET
Nominal Output Voltage	220 V
Nominal Output Frequency	50
Overloads	100-125% (120 Seconds), 126-150% (5 Seconds), 151-200% (2.5 Seconds), > 200% (Immediate)
Controller Type	DSP Based
Output Type	Pure Sine Wave
Input Source	PV/ Battery
Peak Inverter Effciency	>85%
Total Harmonic Distrotion	less than 5 %
Changeover Time in UPS Mode	less than 15 msec
Changeover Time in Wide Range Mode	less than 25 msec
UPS Mode/ Wide Range Mode (for IT and Non-IT Loads)	Provided
BATTERY	
Battery Under Cut Alarm	21.1 Volts (Auto Adjustable)
Battery Under Cut	20.5 Volts (Auto Adjustable)
Float Charging Voltage (Factory Settable)	26.4V (Tubular)/ 27V (SMF)/ 26.8V (Flat Plate)
Boost Charging Voltage (Factory Settable)	29.4 (Tubular)/ 27.6V (SMF)/ 27.4V (Flat Plate)
GRID CHARGER	
Grid Operating Range (Wide Range Mode)	120-280 Volts (+/- 10V)
Grid Under Cut Recovery (Wide Range Mode)	135 Volts (+/- 5V)
Grid Over Cut Recovery Voltage (Wide Range Mode)	265 Volts (+/- 5V)
Grid Operating Range (UPS Mode)	180-260 Volts (+/- 10V)
Grid Under Cut Recovery (UPS Mode)	195 Volts (+/- 5V)
Grid Over Cut Recovery (UPS Mode)	245 Volts (+/- 5V)
Grid Input Frequency Range	47-53 Hz
Max Battery Charging Current from Grid	18 Amps (settable)
Battery Charging from Grid Enable/ Disable	Provided
Input Source Supported	Grid/ Diesel Generator
DISPLAY/ PROTECTIONS/ INDICATIONS	
Protections	**PV:** Reverse Polarity, Battery Reverse Power, PV Power Limit **Battery:** Under Voltage Cut, Over Voltage Cut, Reverse Ploarity, Overcharge Limit (BCL), Battery Fuse **Grid:** Over Voltage, Under Voltage, Over Frequency, Under Frequency, Grid Fuse **Load:** Overload, Short Circuit, Over Heat, Output Low, Grid Back Feed, Prevent Bypass in Ph-Ph condition
Display Parameters	**PV:** Voltage, Amps, Power, Total KWH Generation, **Battery:** Voltage, Amps, Charge/ Discharge Status **Grid:** Voltage, Frequency, **Load:** Voltage, Load %, Frequency. **System:** Operating Modes (UPS/ Wide Range), Priority Selection), Grid Charging Enable/ Disable, Battery Status (Charging/ Discharging) **Start Up:** Statcon Energiaa, Website, Firmware versions
Display Faults	**PV:** PV Over Voltage, PV Over Load, **Battery:** Battery Under Voltage, Battery Over Voltage **Grid:** Grid Under Voltage, Grid Over Voltage, **Load:** Overload, O/P Short Circuit, **System:** Over Temperature
Audio Buzzer	Overloads, Short Circuit, Low Battery Alarm, Battery Under Cut, Change in Grid Status (Beep)
Front Panel LED	Power ON, Inverter ON, SPV Present/ SPV Charging, Grid Present/ Grid Charging, Battery Under Cut/ Alarm, Fault
Display Type	16 x 2 Alpha Numeric Display with Backlight
ENVIRONMENT	
Operating Temperature	0-50 degrees Ambient
Storage Temperature	0-50 degrees Ambient
Max Relative Humidity @25ºC (Non Condensing)	95%
Degree of Protection	IP20
Dimensions (LxWxH)	415X357X160 (in mm)
Weight (Approx)	20.8Kg
Cooling	Temp Controlled Fan Cooled
***Specifications are subject to change without prior notice due to constant improvement in design and technology**	