

# Non-stop power. Non-stop happiness.

V-Guard Inverter & Battery.





# Synergy Smart Series



AN INVERTER WITH MANY SMART FEATURES

# Synergy Smart 1150



## Speciality

- Smart mobile phone App
- Monitoring and control of DUPS through Wi-Fi and Bluetooth
- Voice controlled through Amazon Alexa & Google Home
- Monitor daily solar consumption
- Equipped with inbuilt high efficiency charge controller with 600Wp solar panel compatibility
- Digital Signal Controller based design for pure sinewave output
- Selectable charging mode for different battery technologies (Tubular Battery / Flat Plate Battery / Local Battery) and capacities (80 to 230 Ah).

SL. No.	Specification	Values
1	Power Rating (VA / W)	950VA / 750W
2	Nominal Output Voltage at No Load in Normal Mode	220V $\pm$ 5VAC
3	Nominal Output Voltage at No Load in UPS Mode	230V $\pm$ 5VAC
4	Output Waveform ( Backup Mode)	Sinewave
5	Output Frequency (Backup Mode)	50Hz $\pm$ 0.5Hz (In Normal / UPS Mode)
6	Normal Mode Mains Input Range in system ON Mode	90V To 290V $\pm$ 10V
7	UPS Mode Mains Input Range in System ON Mode	180V To 260V $\pm$ 6V
8	Output Voltage (ON Mains Mode)	Same as Input Voltage
9	Normal Mode Transfer Time in System ON Mode	<20 mS
10	UPS Mode Transfer Time in System ON Mode	$\leq$ 10 mS
11	Nominal Voltage, Recommended Battery	12V, 12V / 80Ah - 230Ah, 1No Lead-Acid Battery
12	Charging Current in Normal Charging Mode	10A $\pm$ 1.5A DC (By Back Side Selection Switch)
13	Charging Current in High Charging Mode	15A $\pm$ 1.5A DC (By Back Side Selection Switch)
14	Protections in Backup & Mains Mode	Over load, Short Circuit, Input, Battery Low voltage, Mains voltage Low/high, Mains input frequency low/high cut Off, Mains RCB Trip, Heat Sink Over Temperature, Battery Over Charging
15	USB Charger Voltage	5.0V DC $\pm$ 0.2V DC, Emergency power to charge your mobile even after inverter fully off after low battery protection.
16	USB Charger Current Capacity	1A $\pm$ 0.2A
17	Short Circuit Protection	Provided with one retry
18	Generator Compatibility	Provided
19	Warranty	2 Years
20	Solar PV Maximum Voltage	21 $\pm$ 2.0 VOC
21	Solar PV Maximum Current	25 A $\pm$ 2 A
22	Solar PV Maximum Wattage	600 Wp
23	Applications	Fan, CFL, Tubelight, EESL LED Bulb, LED TV (Upto 55 Inch), Mixer (Upto 750 W), Room Cooler (Upto 300W), Inverter Refrigerator (Upto 320 Litre), Monoblock Self Prime Pump (Upto 0.5 HP), Kitchen Chimney (Upto 1200 M3/hr), Sound Bar / Speaker System, Personal Computer, Deskjet Printer.

# Synergy Smart 1800



## Speciality

- Smart mobile phone App
- Monitoring and control of DUPS through Wi-Fi and Bluetooth
- Voice controlled through Amazon Alexa & Google Home
- Monitor daily solar consumption
- Equipped with inbuilt high efficiency charge controller with 1200Wp solar panel compatibility
- Digital Signal Controller based design for pure sinewave output
- Selectable charging mode for different battery technologies (Tubular Battery / Flat Plate Battery / Local Battery) and capacities (80 to 230 Ah).

SL. No.	Specification	Values
1	Power Rating (VA / W)	1550VA / 1240W
2	Nominal Output Voltage at No Load in Normal Mode	220V $\pm$ 5VAC
3	Nominal Output Voltage at No Load in UPS Mode	230V $\pm$ 5VAC
4	Output Waveform ( Backup Mode)	Sinewave
5	Output Frequency (Backup Mode)	50Hz $\pm$ 0.5Hz (In Normal / UPS Mode)
6	Normal Mode Mains Input Range in system ON Mode	90V To 290V $\pm$ 10V
7	UPS Mode Mains Input Range in System ON Mode	180V To 260V $\pm$ 6V
8	Output Voltage (ON Mains Mode)	Same as Input Voltage
9	Normal Mode Transfer Time in System ON Mode	<30 mS
10	UPS Mode Transfer Time in System ON Mode	<15 mS
11	Nominal Voltage, Recommended Battery	24V, 12V / 80Ah - 230Ah, 2Nos Lead-Acid Batteries
12	Charging Current in Normal Charging Mode	10A $\pm$ 1.5A DC (By Back Side Selection Switch)
13	Charging Current in High Charging Mode	15A $\pm$ 1.5A DC (By Back Side Selection Switch)
14	Protections in Backup & Mains Mode	Over load, Short Circuit, Input, Battery Low voltage, Mains voltage Low/high, Mains input frequency low/high cut Off, Mains RCB Trip, Heat Sink Over Temperature, Battery Over Charging
15	Short Circuit Protection	Provided with one retry
16	Generator Compatibility	Provided
17	Warranty	2 Years
18	Solar PV Voltage	35 Voc to 42 Voc
19	Solar PV Maximum Current	40 A $\pm$ 2 A
20	Solar PV Maximum Wattage	1200 Wp
21	Applications	Fan, CFL, Tubelight, EESL LED Bulb, LED TV (Upto 55 Inch), Mixer (Upto 1000 W), Desert Cooler (Upto 450W), Inverter Refrigerator (Upto 400 Litres), Monoblock Self Prime Pump (Upto 1 HP), Kitchen Chimney (Upto 1200 M3/hr), Sound Bar / Speaker System, Personal Computer, Deskjet Printer.

# Synergy Smart 2500



## Speciality

- Smart mobile phone App
- Monitoring and control of DUPS through Wi-Fi and Bluetooth
- Voice controlled through Amazon Alexa & Google Home
- Monitor daily solar consumption
- Equipped with inbuilt high efficiency charge controller with 1500Wp solar panel compatibility
- Digital Signal Controller based design for pure sinewave output
- Selectable charging mode for different battery technologies (Tubular Battery / Flat Plate Battery / Local Battery) and capacities (80 to 230 Ah).

SL. No.	Specification	Values
1	Power Rating (VA / W)	2000VA / 1600W
2	Nominal Output Voltage at No Load in Normal Mode	220V $\pm$ 5VAC
3	Nominal Output Voltage at No Load in UPS Mode	230V $\pm$ 5VAC
4	Output Waveform ( Backup Mode)	Sinewave
5	Output Frequency (Backup Mode)	50Hz $\pm$ 0.5Hz (In Normal / UPS Mode)
6	Normal Mode Mains Input Range in system ON Mode	90V To 290V $\pm$ 10V
7	UPS Mode Mains Input Range in System ON Mode	180V To 260V $\pm$ 6V
8	Output Voltage (ON Mains Mode)	Same as Input Voltage
9	Normal Mode Transfer Time in System ON Mode	<30 mS
10	UPS Mode Transfer Time in System ON Mode	<15 mS
11	Nominal Voltage, Recommended Battery	24V, 12V / 80Ah - 230Ah, 2Nos Lead-Acid Batteries
12	Charging Current in Normal Charging Mode	10A $\pm$ 1.5A DC (By Back Side Selection Switch)
13	Charging Current in High Charging Mode	15A $\pm$ 1.5A DC (By Back Side Selection Switch)
14	Protections in Backup & Mains Mode	Over load, Short Circuit, Input, Battery Low voltage, Mains voltage Low/high, Mains input frequency low/high cut Off, Mains MCB Trip, Heat Sink Over Temperature, Battery Over Charging
15	Short Circuit Protection	Provided with one retry
16	Generator Compatibility	Provided
17	Warranty	2 Years
18	Solar PV Voltage	35 Voc to 50 Voc
19	Solar PV Maximum Current	50 A $\pm$ 2 A
20	Solar PV Maximum Wattage	1500 Wp
21	Applications	Fan, CFL, Tubelight, EESL LED Bulb, LED TV (Upto 55 Inch), Iron Box, Mixer, Desert Cooler, Refrigerator, Pump set (Upto 0.5 HP), Geyser (Upto 1 kW), Inverter AC ( Upto 0.75 Ton), Personal Computer, Deskjet Printer.

# Synergy Smart 3500



## Speciality

- Smart mobile phone App
- Monitoring and control of DUPS through Wi-Fi and Bluetooth
- Voice controlled through Amazon Alexa & Google Home
- Monitor daily solar consumption
- Equipped with inbuilt high efficiency charge controller with 2000Wp solar panel compatibility
- Digital Signal Controller based design for pure sinewave output
- Selectable charging mode for different battery technologies (Tubular Battery / Flat Plate Battery / Local Battery) and capacities (80 to 230 Ah).

Sl. No.	Specification	Values
1	Power Rating (VA / W)	3000VA / 2400W
2	Nominal Output Voltage at No Load in Normal Mode	220V $\pm$ 5VAC
3	Nominal Output Voltage at No Load in UPS Mode	230V $\pm$ 5VAC
4	Output Waveform ( Backup Mode)	Sinewave
5	Output Frequency (Backup Mode)	50Hz $\pm$ 0.5Hz (In Normal / UPS Mode)
6	Normal Mode Mains Input Range in system ON Mode	90V To 290V $\pm$ 10V
7	UPS Mode Mains Input Range in System ON Mode	180V To 260V $\pm$ 6V
8	Output Voltage (ON Mains Mode)	Same as Input Voltage
9	Normal Mode Transfer Time in System ON Mode	<30 mS
10	UPS Mode Transfer Time in System ON Mode	<15 mS
11	Nominal Voltage, Recommended Battery	36V, 12V / 80Ah - 230Ah, 3Nos Lead-Acid Batteries
12	Charging Current in Normal Charging Mode	10A $\pm$ 1.5A DC (By Back Side Selection Switch)
13	Charging Current in High Charging Mode	15A $\pm$ 1.5A DC (By Back Side Selection Switch)
14	Protections in Backup & Mains Mode	Over load, Short Circuit, Input, Battery Low voltage, Mains voltage Low/high, Mains input frequency low/high cut Off, Mains MCB Trip, Heat Sink Over Temperature, Battery Over Charging
15	Short Circuit Protection	Provided with one retry
16	Generator Compatibility	Provided
17	Warranty	2 Years
18	Solar PV Voltage	60 Voc to 85 Voc
19	Solar PV Maximum Current	37 A $\pm$ 2 A
20	Solar PV Maximum Wattage	2000 Wp
21	Applications	Fan, CFL, Tubelight, EESL LED Bulb, LED TV (Upto 65 Inch), Iron Box, Mixer (Upto 1200 W) Desert Cooler, Refrigerator, Pump set (Upto 0.75 HP), Geyser (Upto 1.5 kW), Inverter AC ( Upto 1.5 Ton), Induction Cooktop (Upto 1.2 kW), Personal Computer, Deskjet Printer.

# Synergy Smart 4500



## Speciality

- Smart mobile phone App
- Monitoring and control of DUPS through Wi-Fi and Bluetooth
- Voice controlled through Amazon Alexa & Google Home
- Monitor daily solar consumption
- Equipped with inbuilt high efficiency charge controller with 3200Wp solar panel compatibility
- Digital Signal Controller based design for pure sinewave output
- Selectable charging mode for different battery technologies (Tubular Battery / Flat Plate Battery / Local Battery) and capacities (80 to 230 Ah).

Sl. No.	Specification	Values
1	Power Rating (VA / W)	4000VA / 3200W
2	Nominal Output Voltage at No Load in Normal Mode	220V $\pm$ 5VAC
3	Nominal Output Voltage at No Load in UPS Mode	230V $\pm$ 5VAC
4	Output Waveform ( Backup Mode)	Sinewave
5	Output Frequency (Backup Mode)	50Hz $\pm$ 0.5Hz (In Normal / UPS Mode)
6	Normal Mode Mains Input Range in system ON Mode	90V To 290V $\pm$ 10V
7	UPS Mode Mains Input Range in System ON Mode	180V To 260V $\pm$ 6V
8	Output Voltage (ON Mains Mode)	Same as Input Voltage
9	Normal Mode Transfer Time in System ON Mode	<30 mS
10	UPS Mode Transfer Time in System ON Mode	<15 mS
11	Nominal Voltage, Recommended Battery	48V, 12V / 80Ah - 230Ah, 4Nos Lead-Acid Batteries
12	Charging Current in Normal Charging Mode	10A $\pm$ 1.5A DC (By Back Side Selection Switch)
13	Charging Current in High Charging Mode	15A $\pm$ 1.5A DC (By Back Side Selection Switch)
14	Protections in Backup & Mains Mode	Over load, Short Circuit, Input, Battery Low voltage, Mains voltage Low/high, Mains input frequency low/high cut Off, Mains MCB Trip, Heat Sink Over Temperature, Battery Over Charging
15	Short Circuit Protection	Provided with one retry
16	Generator Compatibility	Provided
17	Warranty	2 Years
18	Solar PV Voltage	70 Voc to 100 Voc
19	Solar PV Maximum Current	50 A $\pm$ 2 A
20	Solar PV Maximum Wattage	3200 Wp
21	Applications	Fan, CFL, Tubelight, EESL LED Bulb, LED TV (Upto 85 Inch), Iron Box, Mixer (Upto 1200W), Desert Cooler, Refrigerator, Pump set (Upto 1 HP), Geyser (Upto 2 kW), Inverter AC ( Upto 1.5 Ton), Induction Cooktop (Upto 1.5 kW), Personal Computer, Deskjet Printer.



## Smart Series



AN INVERTER WITH MANY SMART FEATURES



# Smart 1100



## Speciality

- Smart mobile phone App
- Run high-intensity appliances
- Supercharge to save time
- Turn on /off from your phone
- Control performance levels
- Override mains during voltage dips
- Good quality output power
- Select Normal / UPS Modes easily
- Selectable charging modes for different battery technology (Flat / Tubular Battery) and capacities (80 to 230 Ah)
- Battery gravity builder with overcharge and deep discharge protection.

Sl. No.	Specification	Values
1	Power Rating (VA / W)	900VA / 740W
2	Nominal Output Voltage at No Load in Normal Mode	220V $\pm$ 5VAC
3	Nominal Output Voltage at No Load in UPS Mode	230V $\pm$ 5VAC
4	Output Waveform ( Backup Mode)	Sinewave
5	Output Frequency (Backup Mode)	50Hz $\pm$ 0.5Hz (In Normal / UPS Mode)
6	Normal Mode Mains Input Range in system ON Mode	90V To 290V $\pm$ 10V
7	UPS Mode Mains Input Range in System ON Mode	180V To 260V $\pm$ 6V
8	Output Voltage (ON Mains Mode)	Same as Input Voltage
9	Normal Mode Transfer Time in System ON Mode	<30 mS
10	UPS Mode Transfer Time in System ON Mode	<10 mS
11	Nominal Voltage, Recommended Battery	12V, 12V / 80Ah - 230Ah, 1No Lead-Acid Battery
12	Charging Current in Normal Charging Mode	10A $\pm$ 1.5A DC (By Back Side Selection Switch)
13	Charging Current in High Charging Mode	15A $\pm$ 1.5A DC (By Back Side Selection Switch)
14	Protections in Backup & Mains Mode	Over load, Short Circuit, Input, Battery Low voltage, Mains voltage Low/high, Mains input frequency low/high cut Off, Mains RCB Trip, Heat Sink Over Temperature, Battery Over Charging
15	USB Charger Voltage	5.0V DC $\pm$ 0.2V DC, Emergency power to charge your mobile even after inverter fully off after low battery protection.
16	USB Charger Current Capacity	1A $\pm$ 0.2A
17	Short Circuit Protection	Provided with one retry
18	Generator Compatibility	Provided
19	Warranty	2 Years
20	Applications	Fan, CFL, Tubelight, EESL LED Bulb, LED TV (Upto 49 Inch), Mixer (Upto 600 W), Room Cooler (Upto 200W), Inverter Refrigerator (Upto 260 Litre), Personal Computer, Deskjet Printer.

# Smart 1500



## Speciality

- Smart mobile phone App
- Run high-intensity appliances
- Supercharge to save time
- Turn on /off from your phone
- Control performance levels
- Override mains during voltage dips
- Good quality output power
- Select Normal / UPS Modes easily
- Selectable charging modes for different battery technology (Flat / Tubular Battery) and capacities (80 to 230 AH)
- Battery gravity builder with overcharge and deep discharge protection.

Sl. No.	Specification	Values
1	Power Rating (VA / W)	1200VA / 840W
2	Nominal Output Voltage at No Load in Normal Mode	220V $\pm$ 5VAC
3	Nominal Output Voltage at No Load in UPS Mode	230V $\pm$ 5VAC
4	Output Waveform ( Backup Mode)	Sinewave
5	Output Frequency (Backup Mode)	50Hz $\pm$ 0.5Hz (In Normal / UPS Mode)
6	Normal Mode Mains Input Range in system ON Mode	90V To 290V $\pm$ 10V
7	UPS Mode Mains Input Range in System ON Mode	180V To 260V $\pm$ 6V
8	Output Voltage (ON Mains Mode)	Same as Input Voltage
9	Normal Mode Transfer Time in System ON Mode	<30 mS
10	UPS Mode Transfer Time in System ON Mode	<10 mS
11	Nominal Voltage, Recommended Battery	12V, 12V / 80Ah - 230Ah, 1No Lead-Acid Battery
12	Charging Current in Normal Charging Mode	12A $\pm$ 1.5A DC (By Back Side Selection Switch)
13	Charging Current in High Charging Mode	17A $\pm$ 1.5A DC (By Back Side Selection Switch)
14	Protections in Backup & Mains Mode	Over load, Short Circuit, Input, Battery Low voltage, Mains voltage Low/high, Mains input frequency low/high cut Off, Mains RCB Trip, Heat Sink Over Temperature, Battery Over Charging
15	USB Charger Voltage	5.0V DC $\pm$ 0.2V DC, Emergency power to charge your mobile even after inverter fully off after low battery protection.
16	USB Charger Current Capacity	1A $\pm$ 0.2A
17	Short Circuit Protection	Provided with one retry
18	Generator Compatibility	Provided
19	Warranty	2 Years
20	Applications	Fan, CFL, Tubelight, EESL LED Bulb, LED TV (Upto 55 Inch), Mixer (Upto 900 W), Room Cooler (Upto 250W), Inverter Refrigerator (Upto 300 Litre), Personal Computer, Deskjet Printer.

# Smart 2300



## Speciality

- Smart mobile phone App
- Operation control through mobile phone app
- Operate high- intensity appliances
- Selectable charging modes for different battery technology (Flat / Tubular Battery) and capacities (80 -230Ah)
- Intelligent load and temperature based cooling fan operation
- Battery gravity builder with overcharge and deep discharge protection

SL. No.	Specification	Values
1	Power Rating (VA / W)	2200VA / 1540W
2	Nominal Output Voltage at No Load in Normal Mode	220V $\pm$ 5VAC
3	Nominal Output Voltage at No Load in UPS Mode	230V $\pm$ 5VAC
4	Output Waveform ( Backup Mode)	Sinewave
5	Output Frequency (Backup Mode)	50Hz $\pm$ 0.5Hz (In Normal / UPS Mode)
6	Normal Mode Mains Input Range in system ON Mode	90V To 290V $\pm$ 10V
7	UPS Mode Mains Input Range in System ON Mode	180V To 260V $\pm$ 6V
8	Output Voltage (ON Mains Mode)	Same as Input Voltage
9	Normal Mode Transfer Time in System ON Mode	<40 mS
10	UPS Mode Transfer Time in System ON Mode	<15 mS
11	Nominal Voltage, Recommended Battery	24V, 12V / 80Ah - 230Ah, 2Nos Lead-Acid Batteries
12	Charging Current in Normal Charging Mode	10A $\pm$ 2A DC (By Back Side Selection Switch)
13	Charging Current in High Charging Mode	20A $\pm$ 2A DC (By Back Side Selection Switch)
14	Protections in Backup & Mains Mode	Over load, Short Circuit, Input, Battery Low voltage, Mains voltage Low/high, Mains input frequency low/high cut Off, Mains MCB Trip, Heat Sink Over Temperature, Battery Over Charging
15	Short Circuit Protection	Provided with one retry
16	Generator Compatibility	Provided
17	Warranty	2 Years
18	Applications	Fan, CFL, Tubelight, EESL LED Bulb, LED TV (Upto 65 Inch), Mixer (Upto 1000 W), Room Cooler (Upto 300W), Inverter Refrigerator, Inverter AC (Upto 1.2 Ton). Geyser (Upto 1 kW), Personal Computer, Deskjet Printer.



# Prime Series



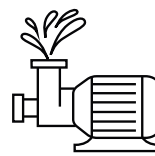
**32 Bit DSC Based Design**



**High Inrush Load Handling**



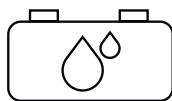
**Runs Room Cooler**



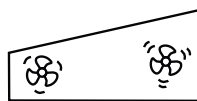
**Runs monoblock pump**



**Battery Gravity Builder**



**Battery Water Topping Reminder**



**Normal/High Output Voltage Modes**

# Prime 850



## Speciality

- High inrush load handling
- Normal/high voltage modes for different output voltage performances
- Digital Signal Controller based design for pure sine wave output
- Battery Gravity Builder with overcharge and deep discharge protections
- Selectable charging mode for different battery technologies (Flat / Tubular Battery) and capacities (80 to 230 Ah) using selector switch
- Intelligent Fuzzy Logic Battery water topping reminder for water topping to avoid battery failures
- 10-15% higher back up than any other competitor brands

Sl. No.	Specification	Values
1	Power Rating (VA / W)	750VA / 600W
2	Nominal Output Voltage at No Load in Normal Mode	220V ± 5VAC
3	Nominal Output Voltage at No Load in UPS Mode	230V ± 5VAC
4	Output Waveform ( Backup Mode)	Sinewave
5	Output Frequency (Backup Mode)	50Hz ± 0.5Hz (In Normal / UPS Mode)
6	Normal Mode Mains Input Range in system ON Mode	90V To 290V ± 10V
7	UPS Mode Mains Input Range in System ON Mode	180V To 260V ± 6V
8	Output Voltage (ON Mains Mode)	Same as Input Voltage
9	Normal Mode Transfer Time in System ON Mode	<20 mS
10	UPS Mode Transfer Time in System ON Mode	<10 mS
11	Nominal Voltage, Recommended Battery	12V, 12V / 80Ah - 230Ah, 1No Lead-Acid Battery
12	Charging Current in Normal Charging Mode	10A ± 1.5A DC (By Back Side Selection Switch)
13	Charging Current in High Charging Mode	15A ± 1.5A DC (By Back Side Selection Switch)
14	Protections in Backup & Mains Mode	Over load, Short Circuit, Input, Battery Low voltage, Mains voltage Low/high, Mains input frequency low/high cut Off, Mains RCB Trip, Heat Sink Over Temperature, Battery Over Charging
15	Short Circuit Protection	Provided with one retry
16	Generator Compatibility	Provided
17	Warranty	2 Years
18	Applications	Fan, CFL, Tubelight, EESL LED Bulb, LED TV (Upto 32 Inch), Mixer (Upto 400 W), Room Cooler (Upto 180W), Inverter Refrigerator (Upto 200 Litre), Personal Computer, Deskjet Printer.

# Prime 1050



## Speciality

- High inrush load handling
- Normal/high voltage modes for different output voltage performances
- Digital Signal Controller based design for pure sine wave output
- Battery Gravity Builder with overcharge and deep discharge protections
- Selectable charging mode for different battery technologies (Flat / Tubular Battery) and capacities (80 to 230 Ah) using selector switch
- Intelligent Fuzzy Logic Battery water topping reminder for water topping to avoid battery failures
- 10-15% higher back up than any other competitor brands

Sl. No.	Specification	Values
1	Power Rating (VA/W)	900VA / 740W
2	Nominal Output Voltage at No Load in Normal Mode	220V ± 5VAC
3	Nominal Output Voltage at No Load in UPS Mode	230V ± 5VAC
4	Output Waveform ( Backup Mode)	Sinewave
5	Output Frequency (Backup Mode)	50Hz ± 0.5Hz (In Normal / UPS Mode)
6	Normal Mode Mains Input Range in system ON Mode	90V To 290V ± 10V
7	UPS Mode Mains Input Range in System ON Mode	180V To 260V ± 6V
8	Output Voltage (ON Mains Mode)	Same as Input Voltage
9	Normal Mode Transfer Time in System ON Mode	<30 mS
10	UPS Mode Transfer Time in System ON Mode	<10 mS
11	Nominal Voltage, Recommended Battery	12V, 12V / 80Ah - 230Ah, 1No Lead-Acid Battery
12	Charging Current in Normal Charging Mode	10A ± 1.5A DC (By Back Side Selection Switch)
13	Charging Current in High Charging Mode	15A ± 1.5A DC (By Back Side Selection Switch)
14	Protections in Backup & Mains Mode	Over load, Short Circuit, Input, Battery Low voltage, Mains voltage Low/high, Mains input frequency low/high cut Off, Mains RCB Trip, Heat Sink Over Temperature, Battery Over Charging
15	Short Circuit Protection	Provided with one retry
16	Generator Compatibility	Provided
17	Warranty	2 Years
18	Applications	Fan, CFL, Tubelight, EESL LED Bulb, LED TV (Upto 55 Inch), Mixer (Upto 600 W), Room Cooler (Upto 200W), Inverter Refrigerator (Upto 260 Litre), Personal Computer, Deskjet Printer.

# Prime 1450



## Speciality

- High inrush load handling
- Normal/high voltage modes for different output voltage performances
- Digital Signal Controller based design for pure sine wave output
- Battery Gravity Builder with overcharge and deep discharge protections
- Selectable charging mode for different battery technologies (Flat / Tubular Battery) and capacities (80 to 230 Ah) using selector switch
- Intelligent Fuzzy Logic Battery water topping reminder for water topping to avoid battery failures
- 10-15% higher back up than any other competitor brands

Sl. No.	Specification	Values
1	Power Rating (VA/W)	1200VA / 840W
2	Nominal Output Voltage at No Load in Normal Mode	220V ± 5VAC
3	Nominal Output Voltage at No Load in UPS Mode	230V ± 5VAC
4	Output Waveform ( Backup Mode)	Sinewave
5	Output Frequency (Backup Mode)	50Hz ± 0.5Hz (In Normal / UPS Mode)
6	Normal Mode Mains Input Range in system ON Mode	90V To 290V ± 10V
7	UPS Mode Mains Input Range in System ON Mode	180V To 260V ± 6V
8	Output Voltage (ON Mains Mode)	Same as Input Voltage
9	Normal Mode Transfer Time in System ON Mode	<30 mS
10	UPS Mode Transfer Time in System ON Mode	<10 mS
11	Nominal Voltage, Recommended Battery	12V, 12V / 80Ah - 230Ah, 1No Lead-Acid Battery
12	Charging Current in Normal Charging Mode	12A ± 1.5A DC (By Back Side Selection Switch)
13	Charging Current in High Charging Mode	17A ± 1.5A DC (By Back Side Selection Switch)
14	Protections in Backup & Mains Mode	Over load, Short Circuit, Input, Battery Low voltage, Mains voltage Low/high, Mains input frequency low/high cut Off, Mains RCB Trip, Heat Sink Over Temperature, Battery Over Charging
15	Short Circuit Protection	Provided with one retry
16	Generator Compatibility	Provided
17	Warranty	2 Years
18	Applications	Fan, CFL, Tubelight, EESL LED Bulb, LED TV (Upto 55 Inch), Mixer (Upto 900 W), Room Cooler (Upto 250W), Inverter Refrigerator (Upto 300 Litre), Personal Computer, Deskjet Printer.

# Prime 1750



## Speciality

- Battery Gravity Builder with overcharge and deep discharge protections
- Selectable charging mode for different battery technologies (Tubular Battery / Flat Plate Battery / Local Battery) and capacities (80 to 230 Ah) using selector switch
- Fuzzy Logic based sensorless battery water topping reminder for water topping to avoid battery failures
- Digital signal controller based design for pure sine wave
- Selection switch to increase output voltage of UPS in backup mode and increase fan speed.

SL. No.	Specification	Values
1	Power Rating (VA / W)	1500VA / 1260W
2	Nominal Output Voltage at No Load in Normal Mode	220V ± 5VAC
3	Nominal Output Voltage at No Load in UPS Mode	230V ± 5VAC
4	Output Waveform ( Backup Mode)	Sinewave
5	Output Frequency (Backup Mode)	50Hz ± 0.5Hz (In Normal / UPS Mode)
6	Normal Mode Mains Input Range in system ON Mode	90V To 290V ± 10V
7	UPS Mode Mains Input Range in System ON Mode	180V To 260V ± 6V
8	Output Voltage (ON Mains Mode)	Same as Input Voltage
9	Normal Mode Transfer Time in System ON Mode	<20 mS
10	UPS Mode Transfer Time in System ON Mode	<10 mS
11	Nominal Voltage, Recommended Battery	24V, 12V / 80Ah - 230Ah, 2Nos Lead-Acid Batteries
12	Charging Current in Normal Charging Mode	10A ± 1.5A DC (By Back Side Selection Switch)
13	Charging Current in High Charging Mode	15A ± 1.5A DC (By Back Side Selection Switch)
14	Protections in Backup & Mains Mode	Over load, Short Circuit, Input, Battery Low voltage, Mains voltage Low/high, Mains input frequency low/high cut Off, Mains RCB Trip, Heat Sink Over Temperature, Battery Over Charging
15	Short Circuit Protection	Provided with one retry
16	Generator Compatibility	Provided
17	Warranty	2 Years
18	Applications	Fan, CFL, Tubelight, EESL LED Bulb, LED TV (Upto 65 Inch), Mixer (Upto 1000 W), Desert Cooler (Upto 450W), Inverter Refrigerator (Upto 600 Litre), Monoblock Self Prime Pump (Upto 1 HP), Kitchen Chimney (Upto 1200 M3 / Hr), Sound Bar / Speaker System, Personal Computer, Deskjet Printer.





## Nextgen Series



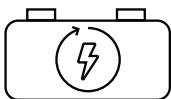
**Runs Mixer  
Grider**



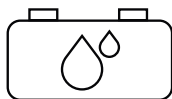
**Runs  
Room Cooler**



**Solar + Grid Charging,  
with solar priority**



**Super Charger Charges  
Battery even at 90V mains**



**Battery Water  
Topping Reminder**



**Battery Gravity  
Builder**

# Nextgen 850



## Speciality

- Charges Battery from as low as 90V mains
- True Solar UPS with In built Solar Charger suitable for 500Wp solar panels
- Runs Juicer / Mixer/ Grinder Easily upto 450W rating
- Good quality output power
- Select Normal / UPS Modes easily
- Intelligent Artificial Intelligence based battery water topping reminder
- Battery Type Selection switch for Tubular Battery / Flat Plate Battery / Local Battery
- Two type Charging current; Power Saver Max. and Normal mode to utilize panel power effectively.

SL. No.	Specification	Values
1	Power Rating (VA/W)	750VA / 600W
2	Nominal Output Voltage at No Load in Normal Mode	245V ± 8VAC
3	Nominal Output Voltage at No Load in UPS Mode	230V ± 8VAC
4	Output Waveform ( Backup Mode)	Square Wave
5	Output Frequency (Backup Mode)	50Hz ± 0.5Hz (In Normal / UPS Mode)
6	Normal Mode Mains Input Range in system ON Mode	80V To 290V ± 10V
7	UPS Mode Mains Input Range in System ON Mode	180V To 260V ± 6V
8	Output Voltage (ON Mains Mode)	Same as Input Voltage
9	Normal Mode Transfer Time in System ON Mode	<20 mS
10	UPS Mode Transfer Time in System ON Mode	<15 mS
11	Nominal Voltage, Recommended Battery	12V, 12V / 80Ah - 230Ah, 1No Lead-Acid Battery
12	Charging Current in Normal Charging Mode	10A ± 1.5A DC (By Back Side Selection Switch)
13	Charging Current in High Charging Mode	13A ± 1.5A DC (By Back Side Selection Switch)
14	Protections in Backup & Mains Mode	Over load, Short Circuit, Input, Battery Low voltage, Mains voltage Low/high, Mains input frequency low/high cut Off, Mains RCB Trip, Heat Sink Over Temperature, Battery Over Charging
15	USB Charger Voltage	5.0V DC ± 0.2V DC, Emergency power to charge your mobile even after inverter fully off after low battery protection.
16	USB Charger Current Capacity	1A DC ± 0.2A DC
17	Short Circuit Protection	Provided with one retry
18	Generator Compatibility	Provided
19	Warranty	2 Years
20	Solar PV Maximum Voltage	21 ± 2.0 VOC
21	Solar PV Maximum Current	20 A ± 2 A
22	Solar PV Maximum Wattage	500 Wp
23	Applications	Fan, CFL, Tubelight, EESL LED Bulb, LED TV (Upto 32 Inch), Mixer (Upto 450 W), Room Cooler (Upto 180W).

# Nextgen 1100



## Speciality

- Charges Battery from as low as 90V mains
- True Solar UPS with In built Solar Charger suitable for 500Wp solar panels
- Runs Juicer / Mixer/ Grinder Easily upto 600W rating
- Good quality output power
- Select Normal / UPS Modes easily
- Intelligent Artificial Intelligence based battery water topping reminder
- Battery Type Selection switch for Tubular Battery / Flat Plate Battery / Local Battery
- Two type Charging current; Power Saver Max. and Normal mode to utilize panel power effectively.

SL. No.	Specification	Values
1	Power Rating (VA / W)	900VA / 720W
2	Nominal Output Voltage at No Load in Normal Mode	245V ± 8VAC
3	Nominal Output Voltage at No Load in UPS Mode	230V ± 8VAC
4	Output Waveform ( Backup Mode)	Square Wave
5	Output Frequency (Backup Mode)	50Hz ± 0.5Hz (In Normal / UPS Mode)
6	Normal Mode Mains Input Range in system ON Mode	80V To 290V ± 10V
7	UPS Mode Mains Input Range in System ON Mode	180V To 260V ± 6V
8	Output Voltage (ON Mains Mode)	Same as Input Voltage
9	Normal Mode Transfer Time in System ON Mode	<20 mS
10	UPS Mode Transfer Time in System ON Mode	<15 mS
11	Nominal Voltage, Recommended Battery	12V, 12V / 80Ah - 230Ah, 1No Lead-Acid Battery
12	Charging Current in Normal Charging Mode	10A ± 1.5A DC (By Back Side Selection Switch)
13	Charging Current in High Charging Mode	15A ± 1.5A DC (By Back Side Selection Switch)
14	Protections in Backup & Mains Mode	Over load, Short Circuit, Input, Battery Low voltage, Mains voltage Low/high, Mains input frequency low/high cut Off, Mains RCB Trip, Heat Sink Over Temperature, Battery Over Charging
15	USB Charger Voltage	5.0V DC ± 0.2V DC, Emergency power to charge your mobile even after inverter fully off after low battery protection.
16	USB Charger Current Capacity	1A ± 0.2A
17	Short Circuit Protection	Provided with one retry
18	Generator Compatibility	Provided
19	Warranty	2 Years
20	Solar PV Maximum Voltage	21 ± 2.0 VOC
21	Solar PV Maximum Current	20 A ± 2 A
22	Solar PV Maximum Wattage	500 Wp
23	Applications	Fan, CFL, Tubelight, EESL LED Bulb, LED TV (Upto 40 Inch), Mixer (Upto 600 W), Room Cooler (Upto 200W)

# Nextgen 1250



## Speciality

- Charges Battery from as low as 90V mains
- True Solar UPS with In built Solar Charger suitable for 600Wp solar panels
- Runs Juicer / Mixer/ Grinder Easily upto 900W rating
- Good quality output power
- Select Normal / UPS Modes easily
- Intelligent Artificial Intelligence based battery water topping reminder
- Battery Type Selection switch for Tubular Battery / Flat Plate Battery / Local Battery
- Two type Charging current; Power Saver Max. and Normal mode to utilize panel power effectively.

Sl. No.	Specification	Values
1	Power Rating (VA / W)	1100VA / 880W
2	Nominal Output Voltage at No Load in Normal Mode	245V ± 8VAC
3	Nominal Output Voltage at No Load in UPS Mode	230V ± 8VAC
4	Output Waveform ( Backup Mode)	Square Wave
5	Output Frequency (Backup Mode)	50Hz ± 0.5Hz (In Normal / UPS Mode)
6	Normal Mode Mains Input Range in system ON Mode	80V To 290V ± 10V
7	UPS Mode Mains Input Range in System ON Mode	180V To 260V ± 6V
8	Output Voltage (ON Mains Mode)	Same as Input Voltage
9	Normal Mode Transfer Time in System ON Mode	<20 mS
10	UPS Mode Transfer Time in System ON Mode	<15 mS
11	Nominal Voltage, Recommended Battery	12V, 12V / 80Ah - 230Ah, 1No Lead-Acid Battery
12	Charging Current in Normal Charging Mode	10A ± 1.5A DC (By Back Side Selection Switch)
13	Charging Current in High Charging Mode	15A ± 1.5A DC (By Back Side Selection Switch)
14	Protections in Backup & Mains Mode	Over load, Short Circuit, Input, Battery Low voltage, Mains voltage Low/high, Mains input frequency low/high cut Off, Mains RCB Trip, Heat Sink Over Temperature, Battery Over Charging
15	USB Charger Voltage	5.0V DC ± 0.2V DC, Emergency power to charge your mobile even after inverter fully off after low battery protection.
16	USB Charger Current Capacity	1A ± 0.2A
17	Short Circuit Protection	Provided with one retry
18	Generator Compatibility	Provided
19	Warranty	2 Years
20	Solar PV Maximum Voltage	21 ± 2.0 VOC
21	Solar PV Maximum Current	20 A ± 2 A
22	Solar PV Maximum Wattage	600 Wp
23	Applications	Fan, CFL, Tubelight, EESL LED Bulb, LED TV (Upto 55 Inch), Mixer (Upto 900 W), Room Cooler (Upto 250W)



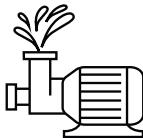
## Jaadoo Series



**Runs Mixer  
Grinder**



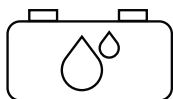
**Runs  
Room Cooler**



**Runs monoblock  
pump**



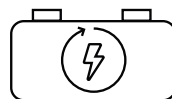
**Intelligent deep  
discharge protection  
for battery**



**Battery Water  
Topping Reminder**



**Battery Gravity  
Builder**



**Super Charger Charges  
Battery even at 90V mains**

# Jaadoo 60



## Speciality

- Portable and sleek product
- Solar compatible
- Charging through solar panels upto 20W or through mains
- Micro controller based high frequency design
- Long beam torch light
- Full functional UPS - change over from mains to battery mode
- Intelligent deep discharge protection for battery.

SL. No.	Specification	Values
1	Power Rating (W)	45W
2	Max. Battery Charging Voltage (Mains)	13.8VDC $\pm$ 0.2VDC
3	Max. Battery Charging Voltage (Solar)	14VDC $\pm$ 0.2VDC
4	Output Waveform	DC
5	Output Voltage (Backup Mode)	140-230 VDC
6	Output Voltage (Line Mode)	110-280 $\pm$ 10VAC
7	Input Frequency	50 Hz $\pm$ 3 Hz
8	UPS Efficiency	>85%
9	Short Circuit Protection	Provided
10	Battery Reverse Protection	Provided
11	Panel Capacity	20W (Max.)
12	Warranty	12 Months
13	Applications	EEES LED Bulbs (4 X 9W), Mobile Charger(5V / 1.5A) / CFL (3 X 15 W)

# Jaadoo 700



## Speciality

- Suitable for low voltage areas
- Keeps battery healthy & provides backup
- Runs juicer/ Mixer Grinder easily upto 450W rating
- At least 8-10% higher backup than competitors during backup modes
- Intelligent Artificial Intelligence based battery water topping reminder avoids battery damage & reduced life due to water drying up
- Charges battery from as low as 90 V mains
- Battery Gravity Builder with overcharge and deep discharge protections
- Better fan speed than competitor products on 1-2 fan loads
- Selectable charging mode for different battery technologies (Flat/Tubular/local battery) and capacities (80 to 165 Ah)
- Digital signal controller based design with pseudo sine wave output
- Controlled output in UPS mode.

SL. No.	Specification	Values
1	Power Rating (VA / W)	600VA / 500W
2	Nominal Output Voltage at No Load in Normal Mode	245V ± 8VAC
3	Nominal Output Voltage at No Load in UPS Mode	230V ± 8VAC
4	Output Waveform ( Backup Mode)	Square Wave
5	Output Frequency (Backup Mode)	50Hz ± 0.5Hz (In Normal / UPS Mode)
6	Normal Mode Mains Input Range in system ON Mode	80V To 290V ± 10V
7	UPS Mode Mains Input Range in System ON Mode	180V To 260V ± 6V
8	Output Voltage (ON Mains Mode)	Same as Input Voltage
9	Normal Mode Transfer Time in System ON Mode	<20 mS
10	UPS Mode Transfer Time in System ON Mode	<15 mS
11	Nominal Voltage, Recommended Battery	12V, 12V / 80Ah - 165Ah, 1Nos Lead-Acid Battery
12	Charging Current in Normal Charging Mode	10A ± 1.5A DC (By Back Side Selection Switch)
13	Charging Current in High Charging Mode	15A ± 1.5A DC (By Back Side Selection Switch)
14	Protections in Backup & Mains Mode	Over load, Short Circuit, Input, Battery Low voltage, Mains voltage Low/high, Mains input frequency low/high cut Off, Mains Fuse Trip, Heat Sink Over Temperature, Battery Over Charging
15	Short Circuit Protection	Provided with one retry
16	Generator Compatibility	Provided
17	Warranty	2 Years
18	Applications	Fan, CFL, Tubelight, EESL LED Bulb, LED TV (Upto 32 Inch), Mixer (Upto 450 W), Room Cooler (Upto 180W).

# Jaadoo 800



## Speciality

- Suitable for low voltage areas
- Keeps battery healthy & provides backup
- Runs juicer/ Mixer Grinder easily upto 600W rating
- At least 8-10% higher backup than competitors during backup modes
- Intelligent Artificial Intelligence based battery water topping reminder avoids battery damage & reduced life due to water drying up
- Charges battery from as low as 90 V mains
- Battery Gravity Builder with overcharge and deep discharge protections
- Better fan speed than competitor products on 1-2 fan loads
- Selectable charging mode for different battery technologies (Tubular Battery / Flat Plate Battery / Local Battery) and capacities (80 to 230 Ah)
- Digital signal controller based design with pseudo sine wave output
- Controlled output in UPS mode.

SL. No.	Specification	Values
1	Power Rating (VA / W)	750VA / 600W
2	Nominal Output Voltage at No Load in Normal Mode	245V ± 8VAC
3	Nominal Output Voltage at No Load in UPS Mode	230V ± 8VAC
4	Output Waveform ( Backup Mode)	Square Wave
5	Output Frequency (Backup Mode)	50Hz ± 0.5Hz (In Normal / UPS Mode)
6	Normal Mode Mains Input Range in system ON Mode	80V To 290V ± 10V
7	UPS Mode Mains Input Range in System ON Mode	180V To 260V ± 6V
8	Output Voltage (ON Mains Mode)	Same as Input Voltage
9	Normal Mode Transfer Time in System ON Mode	<20 mS
10	UPS Mode Transfer Time in System ON Mode	<15 mS
11	Nominal Voltage, Recommended Battery	12V, 12V / 80Ah - 230Ah, 1Nos Lead-Acid Battery
12	Charging Current in Normal Charging Mode	10A ± 1.5A DC (By Back Side Selection Switch)
13	Charging Current in High Charging Mode	13A ± 1.5A DC (By Back Side Selection Switch)
14	Protections in Backup & Mains Mode	Over load, Short Circuit, Input, Battery Low voltage, Mains voltage Low/high, Mains input frequency low/high cut Off, Mains RCB Trip, Heat Sink Over Temperature, Battery Over Charging
15	Short Circuit Protection	Provided with one retry
16	Generator Compatibility	Provided
17	Warranty	2 Years
18	Applications	Fan, CFL, Tubelight, EESL LED Bulb, LED TV (Upto 32 Inch), Mixer (Upto 600 W), Room Cooler (Upto 180W)



# Jaadoo 1050



## Speciality

- Suitable for low voltage areas
- Keeps battery healthy & provides backup
- Runs juicer/ Mixer Grinder easily upto 750W rating
- At least 8-10% higher backup than competitors during backup modes
- Intelligent Artificial Intelligence based battery water topping reminder avoids battery damage & reduced life due to water drying up
- Charges battery from as low as 90 V mains
- Battery Gravity Builder with overcharge and deep discharge protections
- Better fan speed than competitor products on 1-2 fan loads
- Selectable charging mode for different battery technologies (Tubular Battery / Flat Plate Battery / Local Battery) and capacities (80 to 230 Ah)
- Digital signal controller based design with pseudo sine wave output
- Controlled output in UPS mode.

SL. No.	Specification	Values
1	Power Rating (VA / W)	900VA / 720W
2	Nominal Output Voltage at No Load in Normal Mode	248V ± 8VAC
3	Nominal Output Voltage at No Load in UPS Mode	230V ± 8VAC
4	Output Waveform ( Backup Mode)	Square Wave
5	Output Frequency (Backup Mode)	50Hz ± 0.5Hz (In Normal / UPS Mode)
6	Normal Mode Mains Input Range in system ON Mode	80V To 290V ± 10V
7	UPS Mode Mains Input Range in System ON Mode	180V To 260V ± 6V
8	Output Voltage (ON Mains Mode)	Same as Input Voltage
9	Normal Mode Transfer Time in System ON Mode	<20 mS
10	UPS Mode Transfer Time in System ON Mode	<15 mS
11	Nominal Voltage, Recommended Battery	12V, 12V / 80Ah - 230Ah, 1Nos Lead-Acid Battery
12	Charging Current in Normal Charging Mode	10A ± 1.5A DC (By Back Side Selection Switch)
13	Charging Current in High Charging Mode	13A ± 1.5A DC (By Back Side Selection Switch)
14	Protections in Backup & Mains Mode	Over load, Short Circuit, Input, Battery Low voltage, Mains voltage Low/high, Mains input frequency low/high cut Off, Mains RCB Trip, Heat Sink Over Temperature, Battery Over Charging
15	Short Circuit Protection	Provided with one retry
16	Generator Compatibility	Provided
17	Warranty	2 Years
18	Applications	Fan, CFL, Tubelight, EESL LED Bulb, LED TV (Upto 40 Inch), Mixer (Upto 750 W), Room Cooler (Upto 200W)

# Jaadoo 1200



## Speciality

- Suitable for low voltage areas
- Keeps battery healthy & provides backup
- Runs juicer/ Mixer Grinder easily upto 900W rating
- At least 8-10% higher backup than competitors during backup modes
- Intelligent Artificial Intelligence based battery water topping reminder avoids battery damage & reduced life due to water drying up
- Charges battery from as low as 90 V mains
- Battery Gravity Builder with overcharge and deep discharge protections
- Better fan speed than competitor products on 1-2 fan loads
- Selectable charging mode for different battery technologies (Tubular Battery / Flat Plate Battery / Local Battery) and capacities (80 to 230 Ah)
- Digital signal controller based design with pseudo sine wave output
- Controlled output in UPS mode.

Sl. No.	Specification	Values
1	Power Rating (VA / W)	1100VA / 880W
2	Nominal Output Voltage at No Load in Normal Mode	248V ± 8VAC
3	Nominal Output Voltage at No Load in UPS Mode	230V ± 8VAC
4	Output Waveform ( Backup Mode)	Square Wave
5	Output Frequency (Backup Mode)	50Hz ± 0.5Hz (In Normal / UPS Mode)
6	Normal Mode Mains Input Range in system ON Mode	80V To 290V ± 10V
7	UPS Mode Mains Input Range in System ON Mode	180V To 260V ± 6V
8	Output Voltage (ON Mains Mode)	Same as Input Voltage
9	Normal Mode Transfer Time in System ON Mode	<20 mS
10	UPS Mode Transfer Time in System ON Mode	<15 mS
11	Nominal Voltage, Recommended Battery	12V, 12V / 80Ah - 230Ah, 1Nos Lead-Acid Battery
12	Charging Current in Normal Charging Mode	12A ± 1.5A DC (By Back Side Selection Switch)
13	Charging Current in High Charging Mode	17A ± 1.5A DC (By Back Side Selection Switch)
14	Protections in Backup & Mains Mode	Over load, Short Circuit, Input, Battery Low voltage, Mains voltage Low/high, Mains input frequency low/high cut Off, Mains RCB Trip, Heat Sink Over Temperature, Battery Over Charging
15	Short Circuit Protection	Provided with one retry
16	Generator Compatibility	Provided
17	Warranty	2 Years
18	Applications	Fan, CFL, Tubelight, EESL LED Bulb, LED TV (Upto 55 Inch), Mixer (Upto 900 W), Room Cooler (Upto 250W)

# Jaadoo 1650



## Speciality

- Suitable for low voltage areas
- Keeps battery healthy & provides backup
- Runs juicer/ Mixer Grinder easily upto 1000W rating
- At least 8-10% higher backup than competitors during backup modes
- Intelligent Artificial Intelligence based battery water topping reminder avoids battery damage & reduced life due to water drying up
- Charges battery from as low as 95 V mains
- Battery Gravity Builder with overcharge and deep discharge protections
- Better fan speed than competitor products on 1-2 fan loads
- Selectable charging mode for different battery technologies (Tubular Battery / Flat Plate Battery / Local Battery) and capacities (80 to 230 Ah)
- Digital signal controller based design with pseudo sine wave output
- Controlled output in UPS mode.

Sl. No.	Specification	Values
1	Power Rating (VA/W)	1500VA / 1260W
2	Nominal Output Voltage at No Load in Normal Mode	240V ± 8VAC
3	Nominal Output Voltage at No Load in UPS Mode	230V ± 8VAC
4	Output Waveform ( Backup Mode)	Square Wave
5	Output Frequency (Backup Mode)	50Hz ± 0.5Hz (In Normal / UPS Mode)
6	Normal Mode Mains Input Range in system ON Mode	80V To 290V ± 10V
7	UPS Mode Mains Input Range in System ON Mode	180V To 260V ± 6V
8	Output Voltage (ON Mains Mode)	Same as Input Voltage
9	Normal Mode Transfer Time in System ON Mode	<20 mS
10	UPS Mode Transfer Time in System ON Mode	<10 mS
11	Nominal Voltage, Recommended Battery	24V, 12V / 80Ah - 230Ah, 2Nos Lead-Acid Batteries
12	Charging Current in Normal Charging Mode	10A ± 1.5A DC (By Back Side Selection Switch)
13	Charging Current in High Charging Mode	15A ± 1.5A DC (By Back Side Selection Switch)
14	Protections in Backup & Mains Mode	Over load, Short Circuit, Input, Battery Low voltage, Mains voltage Low/high, Mains input frequency low/high cut Off, Mains RCB Trip, Heat Sink Over Temperature, Battery Over Charging
15	Short Circuit Protection	Provided with one retry
16	Generator Compatibility	Provided
17	Warranty	2 Years
18	Applications	Fan, CFL, Tubelight, EESL LED Bulb, LED TV (Upto 65 Inch), Mixer (Upto 1000 W), Desert Cooler (Upto 450W), Inverter Refrigerator (Upto 600 Litre), Monoblock Self Prime Pump (Upto 1 HP), Kitchen Chimney (Upto 1200 M3 / Hr), Sound Bar / Speaker System.



# Batteries

V-Guard very low maintenance battery which is designed for demanding home UPS applications has the distinctive advantage of requiring less topping up from the date of sale.

The spines & grids of the battery are casted with innovative alloy and its thick, Modified plates ensure long life and greater reliability.

## Speciality

- Upto 40% extra backup.
- Long service life.
- Tubular positive plates for excellent corrosion resistance & long life.
- Heavy duty plates with excellent cycle life.
- Low rate of self discharge.
- Robust & aesthetically superior PPCP container.
- Stronger, sturdier & attractive packaging.
- Deep cycle design.



VJ 145

### Specification

Capacity	135Ah C20@27°C
Application	Digital UPS / UPS / etc.
Back-up time in hours with 400W bulb load	2 Hrs 20 Mins
Dimension of Battery	mm ± 5%
Length	505 mm
Width	220 mm
Height	285 mm
Weight of battery	Kg ± 5 %
Filled weight	42 Kg
Gross weight	43.5 Kg
Acid Volume (± 2 Ltrs)	16 Ltrs
Specific gravity of Electrolyte on Full Charge	1.245 ± 0.005 g/cc
Colour of carton	Multi Color
Spec of carton	535 mm x 235 mm x 335 mm (Lx B xH)
Standard warranty	25 months
Pro-Rated warranty	15 months



VJ 160

### Specification

Capacity	150Ah C20@27°C
Application	Digital UPS / UPS / etc.
Back-up time in hours with 400W bulb load	2 Hrs 45 Mins
Dimension of Battery	mm ± 5%
Length	505mm
Width	220mm
Height	285mm
Weight of battery	Kg ± 5%
Filled weight	43.5Kg
Gross weight	45Kg
Acid Volume (± 2 Ltrs)	15 Ltrs
Specific gravity of Electrolyte on Full Charge	1.245 ± 0.005 g/cc
Colour of carton	Multi Color
Spec of carton	535mm x 235mm x 335mm (L x B x H)
Standard warranty	25 months
Pro-Rated warranty	15 months



VT 115D

### Specification

Capacity	105Ah C20@27°C
Application	Digital UPS / UPS / etc.
Back-up time in hours with 400W bulb load	1 Hrs 40 Min
Dimension of Battery	mm ± 5%
Length	515 mm
Width	213 mm
Height	260 mm
Weight of battery	Kg ± 5 %
Filled weight	36 Kg
Gross weight	37.5 Kg
Acid Volume (± 2 Ltrs)	12 Ltrs
Specific gravity of Electrolyte on Full Charge	1.245 ± 0.005 g/cc
Colour of carton	Multi Color
Spec of carton	535 mm x 235 mm x 315 mm (Lx B xH)
Standard warranty	30 months
Pro-Rated warranty	12 months



VT 120

### Specification

Capacity	110Ah C20@27°C
Application	Digital UPS / UPS / etc.
Back-up time in hours with 400W bulb load	1 Hrs 45 Mins
Dimension of Battery	mm ± 5%
Length	505 mm
Width	190 mm
Height	415 mm
Weight of battery	Kg± 5 %
Filled weight	49 Kg
Gross weight	51 Kg
Acid Volume (± 2 Ltrs)	23 Ltrs
Specific gravity of Electrolyte on Full Charge	1.245 ± 0.005 g/cc
Colour of carton	Multi Color
Spec of carton	530 mm x 220 mm x 485 mm (Lx B xH)
Standard warranty	36 months
Pro-Rated warranty	18 months



VT 150D

### Specification

Capacity	140Ah C20@27°C
Application	Digital UPS / UPS / etc.
Back-up time in hours with 400W bulb load	2 Hrs 40 Min
Dimension of Battery	mm ± 5%
Length	505 mm
Width	190 mm
Height	415 mm
Weight of battery	Kg ± 5 %
Filled weight	52 Kg
Gross weight	54 Kg
Acid Volume (± 2 Ltrs)	21 Ltrs
Specific gravity of Electrolyte on Full Charge	1.245 ± 0.005 g/cc
Colour of carton	Multi Color
Spec of carton	530 mm x 220 mm x 485 mm (Lx B xH)
Standard warranty	36 months
Pro-Rated warranty	18 months



VT 155D

### Specification

Capacity	152Ah C20@27°C
Application	Digital UPS / UPS / etc.
Back-up time in hours with 400W bulb load	2 Hrs 40 Mins
Dimension of Battery	mm ± 5%
Length	505mm
Width	190mm
Height	415mm
Weight of battery	Kg ± 5 %
Filled weight	51.5 Kg
Gross weight	53 Kg
Acid Volume (± 2 Ltrs)	21 Ltrs
Specific gravity of Electrolyte on Full Charge	1.245 ± 0.005 g/cc
Colour of carton	Multi Color
Spec of carton	530 mm x 220 mm x 485 mm (Lx B xH)
Standard warranty	24 months
Pro-Rated warranty	12 months



VT 160

### Specification

Capacity	152Ah C20@27°C
Application	Digital UPS / UPS / etc.
Back-up time in hours with 400W bulb load	2 Hrs 45 Mins
Dimension of Battery	mm ± 5%
Length	505 mm
Width	190 mm
Height	415 mm
Weight of battery	Kg ± 5 %
Filled weight	54 Kg
Gross weight	56 Kg
Acid Volume (± 2 Ltrs)	20 Ltrs
Specific gravity of Electrolyte on Full Charge	1.245 ± 0.005 g/cc
Colour of carton	Multi Color
Spec of carton	530 mm x 220 mm x 485 mm (Lx B xH)
Standard warranty	30 months
Pro-Rated warranty	18 months



VT 165

### Specification

Capacity	152 Ah C20@27°C
Application	Digital UPS / UPS / etc.
Back-up time in hours with 400W bulb load	2 Hrs 50 Mins
Dimension of Battery	mm ± 5%
Length	505 mm
Width	190 mm
Height	415 mm
Weight of battery	Kg ± 5 %
Filled weight	54 Kg
Gross weight	56 Kg
Acid Volume (± 2 Ltrs)	20 Ltrs
Specific gravity of Electrolyte on Full Charge	1.245 ± 0.005 g/cc
Colour of carton	Multi Color
Spec of carton	530 mm x 220 mm x 485 mm (Lx B xH)
Standard warranty	36 months
Pro-Rated warranty	18 months





VT 170

### Specification

Capacity	160Ah C20@27°C
Application	Digital UPS / UPS / etc.
Back-up time in hours with 400W bulb load	3 Hrs
Dimension of Battery	mm ± 5%
Length	505 mm
Width	190 mm
Height	415 mm
Weight of battery	Kg ± 5 %
Filled weight	56 Kg
Gross weight	58 Kg
Acid Volume (± 2 Ltrs)	20 Ltrs
Specific gravity of Electrolyte on Full Charge	1.245 ± 0.005 g/cc
Colour of carton	Multi Color
Spec of carton	530 mm x 220 mm x 485 mm (Lx B xH)
Standard warranty	36 months
Pro-Rated warranty	18 months



VT 200S

### Specification

Capacity	200 Ah C20@27°C
Application	Digital UPS / UPS / etc.
Back-up time in hours with 400W bulb load	4 Hrs 10 Mins
Dimension of Battery	mm ± 5%
Length	505 mm
Width	190 mm
Height	415 mm
Weight of battery	Kg ± 5 %
Filled weight	58.5 Kg
Gross weight	60.5 Kg
Acid Volume (± 2 Ltrs)	20 Ltrs
Specific gravity of Electrolyte on Full Charge	1.245 ± 0.005 g/cc
Colour of carton	Multi Color
Spec of carton	530 mm x 220 mm x 485 mm (Lx B xH)
Standard warranty	24 months
Pro-Rated warranty	24 months



VT 200

### Specification

Capacity	200Ah C20@27°C
Application	Digital UPS / UPS / etc.
Back-up time in hours with 400W bulb load	4 Hrs 10 Mins
Dimension of Battery	mm ±5%
Length	505 mm
Width	190 mm
Height	415 mm
Weight of battery	Kg ± 5 %
Filled weight	61 Kg
Gross weight	63 Kg
Acid Volume (± 2 Ltrs)	19 Ltrs
Specific gravity of Electrolyte on Full Charge	1.245 ± 0.005 g/cc
Colour of carton	Multi Color
Spec of carton	530 mm x 220 mm x 485 mm (Lx B xH)
Standard warranty	36 months
Pro-Rated warranty	18 months



VT 250

Capacity	230Ah C20@27°C
Application	Digital UPS / UPS / Inverter etc.
Back-up time in hours with 400W bulb load	5 Hrs
Dimension of Battery	mm ± 5%
Length	505 mm
Width	190 mm
Height	415 mm
Weight of battery	Kg ± 5 %
Filled weight	63 Kg
Gross weight	65 Kg
Acid Volume (± 2 Ltrs)	18 Ltrs
Specific gravity of Electrolyte on Full Charge	1.245 ± 0.005 g/cc
Colour of carton	Multi Color
Spec of carton	530 mm x 220 mm x 485 mm (Lx B xH)
Standard warranty	36 months
Pro-Rated warranty	18 months



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