

# India's Solar Most Trusted Solution



TRUE HYBRID  
**Solar**  
Power Generating System



**Quick**  
deep-discharge  
recovery



**Zero**  
maintenance



**Wide operation**  
temperature range



**Ultra low**  
self-discharging

**eco**friendly





### KEY FEATURES :-

- Operate on both Solar Power as well as Grid Power.
- It is integrated with in-built fully regulated 50Amp/70Amp PWM Solar Charge Controller for maximum Solar Power utilization.
- Smart Solar Selection with three different saving mode.
- It is designed to give you maximum benefit from the solar energy and minimize your electricity bill drastically.
- Highly efficient battery charging from the solar energy as a result you will get non-stop power, save money, save electricity and protect the environment.
- Advanced ARM Cortex technology for absolute stable and 100% pure sine wave output.
- User- friendly LCD for the display of mode of operation and all parameters.
  
- **Dual Mode of working :** UPS and Normal  
**UPS Mode:** Fast switching, Input operating range from 180V to 260V.  
**Normal Mode:** Wide Input operating range from 100V to 290V.
  
- **Dual Solar Mode:** Hybrid and PCU Mode  
**Hybrid Mode:** Intelligent battery charging through the Solar Power and Grid Power.  
**PCU Mode:** Charge sharing and ability of running load with solar and battery hence saving grid power and utilizing maximum solar power to minimize the electricity bill.
  
- **Dual Battery charging Mode:** Tubular and SMF Battery Mode Different Battery selection mode to enhance the battery life.
  
- Intelligent overload sensing circuitry with auto retries facility.
- Programmable thermal protection : cooling fan which operates as needed.
- High Power new generation MOSFET capable to handle high in-rush/ surge current.
- Double stage MOSFET Over Current Protection by measuring Rds ON.
- Highest efficiency at lower cost.
- Pure Sine Wave Output with low Total Harmonic Distortion (THD).
- High End ARM-Cortex based design of Solar Charge Controller for charging through Solar Power.
- Eco-friendly operation.
- Solar PV reverse voltage Protection.
- Electronic Over Current Charging Protection.
- Reverse Current Flow Protection from Battery to Solar Panel generally during night.
- No mechanical contact for charge Controller.
  
- # If solar is available and battery declared as full charged, then Mains will automatic cut till battery discharge upto pre-defined level in PCU mode.



### TECHNICAL SPECIFICATION

Parameters		Rating		
System Model Name		XE/800/12V	XE/1000/12V	
Capacity		750VA	900VA	
Operating DC Voltage		12V		
Switching Element		Mosfet		
Charger Topology		Boost Mosfet		
Parameter (Grid)		Default Value		Variable Range
Nominal Grid Voltage		230V		
Nominal Frequency		50Hz		
Frequency Range		45-55 Hz $\pm$ 1 Hz		
Battery Charging Method 4 Stage		Bulk/Absorption/Float/Equalize		
Grid - Battery Charging Voltage	TUB (Default)	Boost	14.4V $\pm$ 0.2V (Each Battery)	13.8V-15V
		Float	13.8V $\pm$ 0.2V (Each Battery)	13V-14.2V
Grid - Battery Charging Voltage	SMF	Boost	14.2V $\pm$ 0.2V (Each Battery)	13.5V-14.2V
		Float	13.8V $\pm$ 0.2V (Each Battery)	13.5V-14.2V
Grid - Battery Charging Current	Enable	Default	12A $\pm$ 1A	5A-12A
		Maximum	12A $\pm$ 1A	
	Disable	Normal/Boost	Charging Current 0.0A	
Grid Reconnect @ Battery Voltage		11.7V $\pm$ 0.2V (Each Battery)		11V-12.5V
Grid Low Cut Voltage	UPS Mode Enable	170V $\pm$ 10V		
	UPS Mode Disable	100V $\pm$ 10V		
Grid Low Cut Recovery	UPS Mode Enable	180V $\pm$ 10V		
	UPS Mode Disable	110V $\pm$ 10V		
Grid High Cut Voltage	UPS Mode Enable	265V $\pm$ 10V		
	UPS Mode Disable	290V $\pm$ 10V		
Grid High Cut Recovery	UPS Mode Enable	255V $\pm$ 10V		
	UPS Mode Disable	280V $\pm$ 10V		
Changeover (Batt. To Mains)	UPS Mode Enable/Disable	<5ms		
Changeover (Mains To Batt.)	UPS Mode Enable/Disable	<12ms		
DG Mode	Enable/Disable	Disable		
Parameter (Battery Mode)				
Output Phase		1 Phase		
Output Waveform		Sinewave		
Nominal Output Voltage		220V $\pm$ 5%		
Max. Output Current		2.1A	2.9A	
Discharging Current		48A $\pm$ 2A	55A $\pm$ 2A	
Nominal Frequency		50Hz $\pm$ 1%		
Battery Low Buzzer		10.8V $\pm$ .02V (Each Battery)		Battery Low Cut +0.3V
Battery Low Cut		10.5V $\pm$ .02V (Each Battery)		10V - 11.5V
Battery High Cut		16.5V $\pm$ .02V (Each Battery)		16.5V - 17.5V





Parameters		Rating		
System Model Name		XE/800/12V	XE/1000/12V	
Capacity		750VA	900VA	
Typical Efficiency		≥ 77%		
Voltage Harmonic		< 3% (Linear Load)		
Over Load Capacity	UPS Mode Disable	>110% 3-Times Auto Reset with 30Sec. Delay and 4th Time Shut Down		
	UPS Mode Enable	>110% 1st Time Shut Down after 30 Sec Delay.		
		>150% Output Goes Down		
Protection		Overload, Battery Low, Battery High, Over Temperature, Short Circuit, PV Reverse, PV High, Mains Fuse Trip, Grid Overload		
Switches and LED Indication	S.No.	Switch	Function(s)	Switch Led Status
	1	POWER	ON/OFF the UPS Output	SYSTEM ON - Led ON SYSTEM OFF - Led OFF
	2	Switch UPS/ Normal	When it is pressed it enables UPS/Normal Mode Selection.	UPS Mode ON - Led ON UPS Mode OFF - Led OFF
	3	NC/HC	When it is pressed it enables Normal Charging/ High Charging.	HC Charging - Led ON NC Charging - Led OFF
	4	Overload LED	UPS is overload.	Overload- Led Blinking with Beep. Overload and shutdown - Led Blinking without Beep. UPS Shortcircuit - Led Continuous glow.
	5	Charging LED	Battery Charging.	Battery Charging - Led Blink Battery >90% Charged - Led ON
	6	Battery Low LED	UPS Battery Condition.	Battery Low- Led ON with Beep. Battery Low Cut - Led ON without Beep.
7	Mains LED	Mais Condition.	Grid in Range- Led On Fuse Trip - Led Blinking without Beep. Fuse Trip and UPS off - Led Continuous glow.	
<b>Parameter (Solar)</b>				
Switching Element		Mosfet		
Operating Mode		HYBRID/PCU LITE/ PCU ULTRA		
Type of Charger		PWM		
SPV Charging Voltage	TUB	Boost	14.7V ± .02V (Each Battery)	14.2V - 15.0V
		Float	14.2V ± .02V (Each Battery)	13.8V - 14.5V
SPV Charging Voltage	SMF	Boost	14.3V ± .02V (Each Battery)	13.5V - 14.5V
		Float	13.9V ± .02V (Each Battery)	13.5V - 14V
Efficiency		≥ 97%		
Solar Current MIN.		>1A (Below 1A, System will act like Solar Absent)		
Solar Current MAX.		30A		
Input Voltage Range (Min - Max) Voc		17V - 25V		
Maximum PV Power Recommended		500W		
<b>Parameter (Environment)</b>				
Operating Temperature		0 - 50°C		
Cooling		Fan		
Max. Relative Humidity @25°C (Non Condensing)		95%		
Noise @ 1 Meter		50dB		
Standard Compliance		IP20		
Weight (kg)		9.1	10.393	
Dimension L x W x H (mm)		330X300X190		
*Specification are subject to change without prior notice due to constant improvement in design & technology.				



## TECHNICAL SPECIFICATION

Parameters		Rating					
System Model Name		XE/1200/12V	XE/1400/12V	XE/1600/12V	XE/1600/24V	XE/2100/24V	
Capacity		1100VA	1300VA	1600VA	1600VA	2100VA	
Operating DC Voltage		12V			24V		
SwUPSching Element		Mosfet					
Charger Topology		Boost Mosfet					
Parameter (Grid)		Default Value					Variable Range
Nominal Grid Voltage		230V					
Nominal Frequency		50Hz					
Frequency Range		45-55 Hz $\pm$ 1 Hz					
Battery Charging Method 4 Stage		Bulk/Absorption/Float/Equalize					
Grid - Battery Charging Voltage	TUB (Default)	Boost	14.4V $\pm$ 0.2V (Each Battery)			13.8V-15V	
		Float	13.8V $\pm$ 0.2V (Each Battery)			13V-14.2V	
Grid - Battery Charging Voltage	SMF	Boost	14.2V $\pm$ 0.2V (Each Battery)			13.5V-14.2V	
		Float	13.8V $\pm$ 0.2V (Each Battery)			13.5V-14.2V	
Grid - Battery Charging Current	Enable	Default	15A $\pm$ 1A			5A-18A	
		Maximum	18A $\pm$ 1A				
	Disable	Normal/Boost	Charging Current 0.0A				
Grid Reconnect @ Battery Voltage		11.7V $\pm$ 0.2V (Each Battery)					11V-12.5V
Grid Low Cut Voltage	UPS Mode Enable	170V $\pm$ 10V					
	UPS Mode Disable	100V $\pm$ 10V					
Grid Low Cut Recovery	UPS Mode Enable	180V $\pm$ 10V					
	UPS Mode Disable	110V $\pm$ 10V					
Grid High Cut Voltage	UPS Mode Enable	265V $\pm$ 10V					
	UPS Mode Disable	290V $\pm$ 10V					
Grid High Cut Recovery	UPS Mode Enable	255V $\pm$ 10V					
	UPS Mode Disable	280V $\pm$ 10V					
Changeover (Batt. To Mains)	UPS Mode Enable/Disable	<5ms					
Changeover (Mains To Batt.)	UPS Mode Enable/Disable	<12ms					
DG Mode	Enable/Disable	Disable					
Parameter (Battery Mode)							
Output Phase		1 Phase					
Output Waveform		Sinewave					
Nominal Output Voltage		220V $\pm$ 5%					
Max. Output Current		3.1A	3.4A	4.3A	4.3A	6.3A	
Discharging Current		72A $\pm$ 2A	86A $\pm$ 2A	105A $\pm$ 2A	52A $\pm$ 2A	72A $\pm$ 2A	
Nominal Frequency		50Hz $\pm$ 1%					50-60 Hz
Battery Low Buzzer		10.8V $\pm$ .02V (Each Battery)					Battery Low Cut +0.3V
Battery Low Cut		10.5V $\pm$ .02V (Each Battery)					10V - 11.5V
Battery High Cut		16.5V $\pm$ .02V (Each Battery)					16.5V - 17.5V



Parameters		Rating				
System Model Name		XE/1200/12V	XE/1400/12V	XE/1600/12V	XE/1600/24V	XE/2100/24V
CapacUPSy		1100VA	1300VA	1600VA	1600VA	2100VA
Typical Efficiency		≥ 77%		≥ 82%		
Voltage Harmonic		< 3% (Linear Load)				
Over Load CapacUPSy		UPS Mode Disable	>110% 3-Times Auto Reset wUPSh 30Sec. Delay and 4th Time Shut Down			
		UPS Mode Enable	>110% 1st Time Shut Down after 30 Sec Delay.			
		>150% Output Goes Down				
Protection		Overload, Battery Low, Battery High, Over Temperature, Short Circuit, PV Reverse, PV High, Mains Fuse Trip, Grid Overload				
Switches and LED Indication		<b>S.No.</b>	<b>Switch</b>	<b>Function(s)</b>	<b>Switch Led Status</b>	
		1	POWER	ON/OFF the UPS Output	SYSTEM ON - Led ON SYSTEM OFF - Led OFF	
		2	INV/UPS	When it is short pressed it enables UPS/Inverter Mode Selection. When it is Long pressed Enables the UPS Parameter Setting. The LCD Displays : "Edit Parameters"	UPS Mode ON - Led ON UPS Mode OFF - Led OFF	
		3	SMF/TUB	When it is short pressed it enables TUBULAR or SMF Battery Selection.	TUBULAR Battery - Led ON SMF Battery - Led OFF	
		4	HYBRID/PCU	When it is Short pressed it Enables the Hybrid or PCU Mode Selection.	PCU Mode - Led ON HYBRID Mode - Led OFF	
Display		5	ONLY LED	Solar status Green/Red	Green LED ON - Full Solar Used Green LED Blinking - Partial Solar Used Green LED OFF - No Solar Used Red LED ON - PV Reverse Protection Red LED OFF - No Protection Selected	
		Battery Voltage, Solar Charging current, Grid Charging current, Solar Load Current, Grid Voltage, Grid Frequency, Output Voltage, Output Frequency, Load in % on Battery, Load in % on Solar, Charging Mode, Protection, Charging Mode, Solar Kwh(Saving), Solar availability Status, Solar Working Mode(HYBRID/PCU LITE/ PCU ULTRA), UPS ON/OFF.				
Parameter (Solar)						
Switching Element		Mosfet				
Operating Mode		HYBRID/PCU LITE/ PCU ULTRA				
Type of Charger		PWM				
SPV Charging Voltage	TUB	Boost	15V ± .02V (Each Battery)			14.2V - 15.5V
		Float	14.2V ± .02V (Each Battery)			13.8V - 14.5V
SPV Charging Voltage	SMF	Boost	14.3V ± .02V (Each Battery)			13.5V - 14.5V
		Float	13.9V ± .02V (Each Battery)			13.5V - 14V
Efficiency		≥ 97%				
Solar Current MIN.		>1A (Below 1A, System will act like Solar Absent)				
Solar Current MAX.		50A				
Input Voltage Range (Min - Max) Voc		17V - 25V			31V - 45V	
Maximum PV Power Recommended		900W	900W	900W	1800W	1800W
Parameter (Environment)						
Operating Temperature		0 - 50°C				
Cooling		Fan				
Max. Relative HumidUPSy @25°C (Non Condensing)		95%				
Noise @ 1 Meter		50dB				
Standard Compliance		IP20				
Weight (kg)		11.94	12.1	16.7	16.3	18.1
Dimension L x W x H (mm)		395X340X230			395X385X270	
*Specification are subject to change wUPShout prior notice due to constant improvement in design & technology.						





### TECHNICAL SPECIFICATION

Parameters		Rating				
System Model Name		XE/3000/24V	XE/3000/48V	XE/4000/48V	XE/5500/48V	XE/5500/96V
Capacity		3000VA	3000VA	4000VA	5500VA	5500VA
Operating DC Voltage		24V	48V			96V
SwUPSching Element		Mosfet				IGBT
Charger Topology		Boost Mosfet				
Parameter (Grid)		Default Value				Variable Range
Nominal Grid Voltage		230V				
Nominal Frequency		50Hz				
Frequency Range		45-55 Hz $\pm$ 1 Hz				
Battery Charging Method 4 Stage		Bulk/Absorption/Float/Equalize				
Grid - Battery Charging Voltage	TUB (Default)	Boost	14.4V $\pm$ 0.2V (Each Battery)			13.8V-15V
		Float	13.8V $\pm$ 0.2V (Each Battery)			13V-14.2V
Grid - Battery Charging Voltage	SMF	Boost	14.2V $\pm$ 0.2V (Each Battery)			13.5V-14.2V
		Float	13.8V $\pm$ 0.2V (Each Battery)			13.5V-14.2V
Grid - Battery Charging Current	Enable	Default	15A $\pm$ 1A			5A-18A
		Maximum	18A $\pm$ 1A			
	Disable	Normal/Boost	Charging Current 0.0A			
Grid Reconnect @ Battery Voltage		11.7V $\pm$ 0.2V (Each Battery)				11V-12.5V
Grid Low Cut Voltage	UPS Mode Enable	170V $\pm$ 10V				
	UPS Mode Disable	100V $\pm$ 10V				
Grid Low Cut Recovery	UPS Mode Enable	180V $\pm$ 10V				
	UPS Mode Disable	110V $\pm$ 10V				
Grid High Cut Voltage	UPS Mode Enable	265V $\pm$ 10V				
	UPS Mode Disable	290V $\pm$ 10V				
Grid High Cut Recovery	UPS Mode Enable	255V $\pm$ 10V				
	UPS Mode Disable	280V $\pm$ 10V				
Changeover (Batt. To Mains)	UPS Mode Enable/Disable	<5ms				
Changeover (Mains To Batt.)	UPS Mode Enable/Disable	<12ms				
DG Mode	Enable/Disable	Disable				
Parameter (Battery Mode)						
Output Phase		1 Phase				
Output Waveform		Sinewave				
Nominal Output Voltage		220V $\pm$ 5%				
Max. Output Current		9.5A	9.5A	13.5A	18A	18A
Discharging Current		96A $\pm$ 2A	52A $\pm$ 2A	76A $\pm$ 2A	105A $\pm$ 2A	52A $\pm$ 2A
Nominal Frequency		50Hz $\pm$ 1%				50-60 Hz
Battery Low Buzzer		10.8V $\pm$ .02V (Each Battery)				Battery Low Cut +0.3V
Battery Low Cut		10.5V $\pm$ .02V (Each Battery)				10V - 11.5V
Battery High Cut		16.5V $\pm$ .02V (Each Battery)				16.5V - 17.5V



Parameters		Rating				
System Model Name		XE/3000/24V	XE/3000/48V	XE/4000/48V	XE/5500/48V	XE/5500/96V
CapacUPSy		3000VA	3000VA	4000VA	5500VA	5500VA
Typical Efficiency		≥ 80%		≥ 82%		
Voltage Harmonic		< 3% (Linear Load)				
Over Load CapacUPSy		UPS Mode Disable	>110% 3-Times Auto Reset wUPSh 30Sec. Delay and 4th Time Shut Down			
		UPS Mode Enable	>110% 1st Time Shut Down after 30 Sec Delay.			
		>150% Output Goes Down				
Protection		Overload, Battery Low, Battery High, Over Temperature, Short Circuit, PV Reverse, PV High, Mains Fuse Trip, Grid Overload				
Switches and LED Indication		S.No.	Switch	Function(s)	Switch Led Status	
		1	POWER	ON/OFF the UPS Output	SYSTEM ON - Led ON SYSTEM OFF - Led OFF	
		2	INV/UPS	When it is short pressed it enables UPS/Inverter Mode Selection. When it is Long pressed Enables the UPS Parameter Setting. The LCD Displays : "Edit Parameters"	UPS Mode ON - Led ON UPS Mode OFF - Led OFF	
		3	SMF/TUB	When it is short pressed it enables TUBULAR or SMF Battery Selection.	TUBULAR Battery - Led ON SMF Battery - Led OFF	
		4	HYBRID/PCU	When it is Short pressed it Enables the Hybrid or PCU Mode Selection.	PCU Mode - Led ON HYBRID Mode - Led OFF	
Display		5	ONLY LED	Solar status Green/Red	Green LED ON - Full Solar Used Green LED Blinking – Partial Solar Used Green LED OFF - No Solar Used Red LED ON – PV Reverse Protection Red LED OFF – No Protection Selected	
		Battery Voltage, Solar Charging current, Grid Charging current, Solar Load Current, Grid Voltage, Grid Frequency, Output Voltage, Output Frequency, Load in % on Battery, Load in % on Solar, Charging Mode, Protection, Charging Mode, Solar Kwh(Saving), Solar availability Status, Solar Working Mode(HYBRID/PCU LITE/ PCU ULTRA), UPS ON/OFF.				
Parameter (Solar)						
Switching Element		Mosfet				
Operating Mode		HYBRID/PCU LITE/ PCU ULTRA				
Type of Charger		PWM				
SPV Charging Voltage	TUB	Boost	15V ± .02V (Each Battery)			14.2V - 15.5V
		Float	14.2V ± .02V (Each Battery)			13.8V - 14.5V
SPV Charging Voltage	SMF	Boost	14.3V ± .02V (Each Battery)			13.5V - 14.5V
		Float	13.9V ± .02V (Each Battery)			13.5V - 14V
Efficiency		≥ 97%				
Solar Current MIN.		>1A (Below 1A, System will act like Solar Absent)				
Solar Current MAX.		50A		70A		50A
Input Voltage Range (Min - Max) Voc		31V - 45V		70V - 90V		130V-150V
Maximum PV Power Recommended		1800W	3600W	3600W	5000W	5000W
Parameter (Environment)						
Operating Temperature		0 - 50°C				
Cooling		Fan				
Max. Relative HumidUPSy @25°C (Non Condensing)		95%				
Noise @ 1 Meter		50dB				
Standard Compliance		IP20				
Weight (kg)		22.5	28.34	31.2	45	45.8
Dimension L x W x H (mm)		395X385X280		430X400X500		520X400X640
*Specification are subject to change wUPShout prior notice due to constant improvement in design & technology.						





### TECHNICAL SPECIFICATION

Parameters		Rating					
System Model Name		XE/7500/96V	XE/7500/120V	XE/10000/120V	XE/15000/240V	XE/20000/360V	
Capacity		7500VA	7500VA	10KVA	15KVA	20KVA	
Operating DC Voltage		96V	120V		240V	360V	
SwUPSching Element		IGBT					
Charger Topology		Boost Mosfet					
Parameter (Grid)		Default Value					Variable Range
Nominal Grid Voltage		230V					
Nominal Frequency		50Hz					
Frequency Range		45-55 Hz $\pm$ 1 Hz					
Battery Charging Method 4 Stage		Bulk/Absorption/Float/Equalize					
Grid - Battery Charging Voltage	TUB (Default)	Boost	14.4V $\pm$ 0.2V (Each Battery)			13.8V-15V	
		Float	13.8V $\pm$ 0.2V (Each Battery)			13V-14.2V	
Grid - Battery Charging Voltage	SMF	Boost	14.2V $\pm$ 0.2V (Each Battery)			13.5V-14.2V	
		Float	13.8V $\pm$ 0.2V (Each Battery)			13.5V-14.2V	
Grid - Battery Charging Current	Enable	Default	15A $\pm$ 1A			5A-18A	
		Maximum	18A $\pm$ 1A				
	Disable	Normal/Boost	Charging Current 0.0A				
Grid Reconnect @ Battery Voltage		11.7V $\pm$ 0.2V (Each Battery)					11V-12.5V
Grid Low Cut Voltage	UPS Mode Enable	170V $\pm$ 10V					
	UPS Mode Disable	100V $\pm$ 10V					
Grid Low Cut Recovery	UPS Mode Enable	180V $\pm$ 10V					
	UPS Mode Disable	110V $\pm$ 10V					
Grid High Cut Voltage	UPS Mode Enable	265V $\pm$ 10V					
	UPS Mode Disable	290V $\pm$ 10V					
Grid High Cut Recovery	UPS Mode Enable	255V $\pm$ 10V					
	UPS Mode Disable	280V $\pm$ 10V					
Changeover (Batt. To Mains)	UPS Mode Enable/Disable	<5ms					
Changeover (Mains To Batt.)	UPS Mode Enable/Disable	<12ms					
DG Mode	Enable/Disable	Disable					
Parameter (Battery Mode)							
Output Phase		1 Phase					
Output Waveform		Sinewave					
Nominal Output Voltage		220V $\pm$ 5%					
Max. Output Current		27A	27A	35A	54A	70A	
Discharging Current		76A $\pm$ 2A	52A $\pm$ 2A	72A $\pm$ 2A	52A $\pm$ 2A	52A $\pm$ 2A	
Nominal Frequency		50Hz $\pm$ 1%					50-60 Hz
Battery Low Buzzer		10.8V $\pm$ .02V (Each Battery)					Battery Low Cut +0.3V
Battery Low Cut		10.5V $\pm$ .02V (Each Battery)					10V - 11.5V
Battery High Cut		16.5V $\pm$ .02V (Each Battery)					16.5V - 17.5V



Parameters		Rating				
System Model Name		XE/7500/96V	XE/7500/120V	XE/10000/120V	XE/15000/240V	XE/20000/360V
CapacUPSy		7500VA	7500VA	10KVA	15KVA	20KVA
Typical Efficiency		≥ 80%		≥ 82%		
Voltage Harmonic		< 3% (Linear Load)				
Over Load CapacUPSy	UPS Mode Disable	>110% 3-Times Auto Reset wUPSh 30Sec. Delay and 4th Time Shut Down				
	UPS Mode Enable	>110% 1st Time Shut Down after 30 Sec Delay.				
		>150% Output Goes Down				
Protection		Overload, Battery Low, Battery High, Over Temperature, Short Circuit, PV Reverse, PV High, Mains Fuse Trip, Grid Overload				
Switches and LED Indication	<b>S.No.</b>	<b>Switch</b>	<b>Function(s)</b>		<b>Switch Led Status</b>	
	1	POWER	ON/OFF the UPS Output		SYSTEM ON - Led ON SYSTEM OFF - Led OFF	
	2	INV/UPS	When It is short pressed It enables UPS/Inverter Mode Selection. When It is Long pressed Enables the UPS Parameter Setting. The LCD Displays : "Edit Parameters"		UPS Mode ON - Led ON UPS Mode OFF - Led OFF	
	3	SMF/TUB	When it is short pressed it enables TUBULAR or SMF Battery Selection.		TUBULAR Battery - Led ON SMF Battery - Led OFF	
	4	HYBRID/PCU	When it is Short pressed it Enables the Hybrid or PCU Mode Selection.		PCU Mode - Led ON HYBRID Mode - Led OFF	
	5	ONLY LED	Solar status Green/Red		Green LED ON - Full Solar Used Green LED Blinking – Partial Solar Used Green LED OFF - No Solar Used Red LED ON – PV Reverse Protection Red LED OFF – No Protection Selected	
Display		Battery Voltage, Solar Charging current, Grid Charging current, Solar Load Current, Grid Voltage, Grid Frequency, Output Voltage, Output Frequency, Load in % on Battery, Load in % on Solar, Charging Mode, Protection, Charging Mode, Solar Kwh(Saving), Solar availability Status, Solar Working Mode(HYBRID/PCU LITE/ PCU ULTRA), UPS ON/OFF.				
<b>Parameter (Solar)</b>						
Switching Element		Mosfet				
Operating Mode		HYBRID/PCU LITE/ PCU ULTRA				
Type of Charger		Hybrid				
SPV Charging Voltage		TUB		Boost		15V ± .02V (Each Battery)
				Float		14.2V ± .02V (Each Battery)
SPV Charging Voltage		SMF		Boost		14.3V ± .02V (Each Battery)
				Float		13.9V ± .02V (Each Battery)
Efficiency		≥ 97%				
Solar Current MIN.		>1A (Below 1A, System will act like Solar Absent)				
Solar Current MAX.		70A	50A	70A		
Input Voltage Range (Min - Max) Voc		130V - 150V	180V - 210V	320V-360V	490V-540V	
Maximum PV Power Recommended		7500W	7500W	8000W	15000W	20000W
<b>Parameter (Environment)</b>						
Operating Temperature		0 - 50°C				
Cooling		Fan				
Max. Relative Humidity @ 25°C (Non Condensing)		95%				
Noise @ 1 Meter		50dB				
Standard Compliance		IP20				
Weight (kg)		65.14	64.74	68.1	98	100
Dimension L x W x H (mm)		520X400X640			610X410X730	
*Specification are subject to change wUPShout prior notice due to constant improvement in design & technology.						