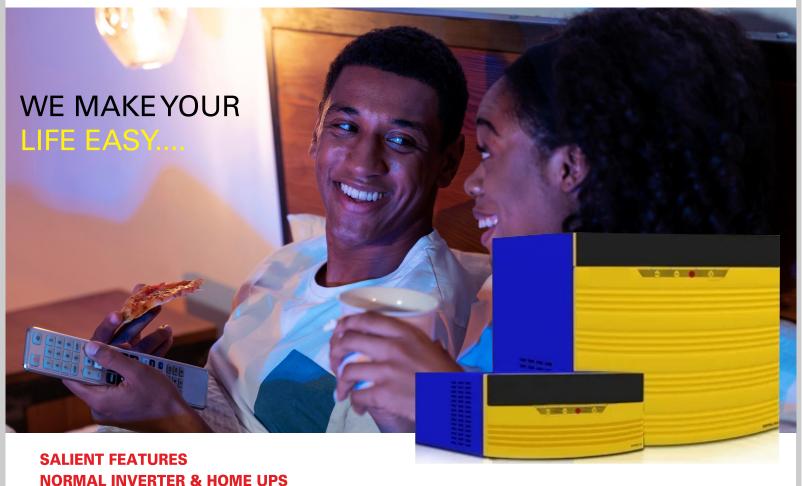
DSP SINE WAVE HOME UPS & INVERTERS SERIES





- DSP Based Design with absolute and stable Sine Wave output voltage and frequency
- State of the art MOSFET based PWM technology with greater efficiency at lower cost with Dynamic Stability
- Over Temperature Protection
- More back-up being a Sine Wave UPS (ASIC Control)
- Three stage charging (TSC) suitable for all types of battery charging.
- Deep Discharge Battery charging from A.C. Mains.
- User friendly, feather touch control and selection switches with LED indication on front panel.
- Protection such as Mains Fuse Trip, Overload, Short Circuit, Battery low, Over Temperature indication with buzzer as well as display on LCD available.

- AC Mains available, battery charging /charged and its voltage indication provided on LCD display.
- Battery type charging selection (Tubular /Flat /SMF/GEL)
- Grid charging enable /disable options which makes it fully compatible with solar.
- Selectable battery charging current (High /Low).
- Resettable AC circuit breaker which reduce service calls.
- Selectable mode for UPS/Inverter.
- Bypass switch in case of any fault
- Comprehensive LCD Display
- Resettable A.C. fuse

APPLICATIONS

- ▶ Power Back-up for House hold, Small shops, Small offices etc.
- ▶ Small Water pumps and all motor based small applications
- ▶ TV Sets, Fans, Tube Lights, computers etc.
- * Technical specification are subject to change without prior notice due to constant imporovement in design and technology.

VACUNA SINE WAVE HOME UPS & INVERTERS SERIES



TECHNICAL SPECIFICATIONS OF SINE WAVE HOME UPS / INVERTERS

PARAMETERS/CHECKS	UNIT	T RATING									
Model name		700/	12	900/12	1250/12	145	0/12	1100/24	1600/24	2500/24	3125/24
System rating in VA	VA	560	0	720	1000	11	60	880	1280	2000	2500
Input current at no load at Nominal Battery voltage	Adc	2.2	2	2.6	2.4	3	3.5	2.2	2.5	2.2	2.8
Full Load Input Current +/-2A	Amp	45	5	60	70	9	92	35	51	65	85
Operating DC voltage	V		,		12	•				24	
Nominal Output voltage in inverter mode	Vac						220V +	/- 7V			
Nominal Output Frequency of Inverter	Hz	50Hz									
Output voltage regulation	٧	180-220									
Overload capacity	Sec	6 Retry									
Cooling Fan ON at temp	°C	60 (or >50'X+ of Rated Load or >8A)									
Cooling Fan Off at temp	°C	55 (or <40% of Rated Load or <5A Charging)									
Battery low voltage alarm per battery	Vdc	10.8 /10.5+/- 0.2									
Battery low voltage cut per battery	Vdc	10.5 /10.2* 0.2 (With 4 Retry)									
Max Battery charging voltage by grid per battery	Vdc	14.4 +/- 0.2 Settable for Tub - 14.4V/28.8V, FALT- 14.2V/28.4V, SMF- 14.2V/28.4, GEL- 14.2V/28.4V, LiFePo4 - 14.0V/28.0V									
Max Battery charging current by grid in Hi / Lo option	Adc	16/12 *2A Ic Settable for Tub—12/16A, FLAT—10/14A, SMF 10/14A,GeI 10/16A, LiFePo4 - 12/16									
Grid low cut voltage (IT load/Normal load)	Vac	Vac 180/100 +/- 10									
Grid low cut voltage recovery (IT load/Normal load)	Vac	Vac 190/110 +/- 10									
Grid high cut voltage (IT load/Normal load)	Vac										
Grid high cut voltage recovery (IT load/Normal load)	Vac										
Grid charging Enable/Disable		yes									
Selection of UPS Load/Normal Load		yes									
Protections		Overload, Battery Deep discharge, Battery Overcharge, Short circuit(1retry), Battery Hi, Over Temp, Fuse/MCB Trip, battery reverse									
LCD Display parameters		Product, UPS 0N/0FF, Mains Status, Mains Voltage, Mains Frequency, Output Voltage, Output Frequency, Battery Voltage, Load Percentage,Charging Status, Charging Mode , Battery Mode, UPS Mode 0N/0FF, Grid Charge 0N/0ff, Inv Type, Over Load, Short Ckt, Battery Low, Over Temp, Fuse/MCB Trip,Battery High									
Enclosure Protection	I P	20									
Changeover time from inverter to mains in UPS mode	ms	<10									
Changeover time from inverter to mains in Normal mode	ms	<10									
Changeover time from mains to inverter in UPS mode	ms	<10									
Changeover time from mains to inverter in Normal mode	ms	<40									
Battecy Conmectiom	Thru Cop 10 sqmm 0.7mtr bla		sqmm	opper cable 16 and 1 mtr red r black length	thru Copper 2Ssqmm and red 0.8mtr blac	d 1mtr	10 sqm	Copper cable nm and 1.25mtr tr black length	thru Coppe 16 sqmm an red 1mtr bla	d 1.25mtr	thru Copper cable 16 sqmm and 1.25mtr red 1mtr black length
Mains connection	3 Core	re Copper Cable Size 0.75sq mm, 1.5mtr Length with TOP			Terminal 3	DA	Size 0.	e Copper Cable 7Ssq mm, 1.5 mt gth with TOP		Terminal :	30A
Output		3 Pin Socket 16A Terminal 30A 3 Pin Socket 16A Terminal 30A					30A				
Fuse in battery path		Internal Fuse									
Input Protection		Resettable Circuit breaker									
Frant panel Switch Detail		MENU O			CHANGE			ON/OFF			INV/UPS

VACUNA DPS SINE WAVE HOME UPS & INVERTERS SERIES



TECHNICAL SPECIFICATIONS OF DPS SINE WAVE INDUSTRIAL INVERTERS

PARAMETERS/CHECKS	UNIT								
Model Name		3500/48V	3000/48V	4000/48V	6000/48V	6000/96V			
System rating (Name Plate)	VA	3000	2500	3500	5000	5000			
Full Load Input Current ±2A	Amp	63	46	63	104	50			
Operating DC voltage	V	36		48		96			
Switching element in Inverter				MOSFET					
Nominal Output voltage in inverter mode	Vac			220V ± 7V					
Output supply phases				SINGLE					
Nominal Frequency (in inverter mode)	Hz	50 ± 1							
Frequency (Min - Max during Grid by pass) UPS mode	Hz	47-53							
Frequency (Min - Max) during Inverter mode	Hz	40-60							
Output voltage regulation	%	195-220							
Output THD (v) at linear load	%	√ 5%							
Crest Factor		3:01							
Overload capacity 125%	Sec	6 (6 Retry)							
Overload capacity 150%	Sec	2 (6 Retry)							
Cooling Fan ON at temp	°C	60(or >45%load) Continuous Run							
Cooling Fan Off at temp	°C		60(or >45%load)	Continuou	Continuous Run				
Peak efficiency of inverter	%	82	86	89	88	87			
Battery low voltage alarm per battery	Vdc		•	10.5± 0.2	•				
Battery low voltage cut per battery	Vdc			10.3 ± 0.2 (4 Retry)					
Max Battery charging voltage by grid per battery	Vdc	14.4±0.2V							
Max Battery charging current by grid in Hi/Lo option	Adc	18±2							
Grid low cut voltage (IT load/Normal load)	Vac	180/100 ± 10							
Grid low cut voltage recovery (IT load/Normal load)	Vac	190/110 ± 10							
Grid high cut voltage (IT load/Normal load)	Vac	265/280 ± 10							
Grid high cut voltage recovery (IT load/Normal load)	Vac			255/270 ± 10					
Selection of UPS Load/Normal Load		253/270 ± 10 Thru Switch							
Output Voltage at 100% load at Nominal Battery voltage	Vac			218±5					
Input current at no load at Nominal Battery voltage	Adc	2.2	2.2	2	2.2	2.2			
Noise @ 1 meter	dB			<50					
Protections	45	ı	Ratt Low Ratt High Over		mn PV roverse MCR Trin/F	Luco Trin			
LCD Display parameters		Batt. Low, Batt. High,Overload, Short circuit,Over temp, PV reverse,MCB Trip/Fuse Trip Battery voltage, Mains voltage, PCU on-off, UPS Mode on-off, Load percentage (0 to 150%),Charging status, over loa short ckt, lt, battery low, over temp, MCB trip, (Alpha numeric 16x2)							
Operating Temperature range	°C			0-50					
Storage Temperature range	°C	0 +65							
Max RH	%	95							
Front panel details (MCB, Display, Selection switch etc)		Display with Rocker Switch							
Rear panel details (MCB, Terminals etc)			FA	N, MCB, ROTARY , TERMIBA	AL , SWITCH				
Efficiency of grid charger	%	82	84	85	82	84			
Enclosure protection	Adc			20	1				
Changeover time from inverter to mains in UPS mode	Adc			<10					
Changeover time from inverter to mains in Normal mode	Adc	<10 <10							
Changeover time from mains to inverter in UPS mode	Adc	<10 <10							
Changeover time from mains to inverter in Normal mode	Adc			<50					
•		Thru	Thru Copper	Thru	Thru	Thru Copper cable			
Battery connection	Adc	Copper	cable 10 sqmm	Copper	Copper	10 sqmm			
Mains Connection				TERMINAL 30A					
Output				TERMINAL 30A					
MCB in Battery Path		NO YES							
Fuse in Battery Path			YES	NO	NO				
TDR (For Compressive Load)		NA Provided							
Input Protection				Through MCB					

VACUNA SINE WAVE SPECIFICATIONS



Charging Current - High	Low Setting								
1A. On Pressing "SET" button once-Charging Current present Setting will be displayed.	HIGH	LOW							
1B. While "Charging Current" Setting is displayed, pressing the "CHANGE" button will alternate between the ava options "LO" and "HI" as displayed above. Default value "HI".	ilable charging current options. Ch	narging current will have two							
Battery Selection									
2A. On Pressing "SET" button again, Selected "BATTERY TYPE" will be displayed.	FLAT S	MF GEL (LiFePo4						
2B. The "BATTERY TYPE" selection will have four options - TUB(Tubular Battery), FLT(Flate Plate Battery), SF(SMF or VRLA Battery), GEL (Tubular Gel battery), LiFePo4(Lithion ion battery). While the selected battery type is displayed, on pressing "CHANGE" button will alternate between the four available options in the order listed above. Default value "TUB".									
Grid Charging Mode Enable/Disable									
3A. On Pressing "SET" button once – Grid charging Enable/ Disable present setting will be displayed.	ENABLE	DISABLE							
3B. While "Grid Charging Mode" setting is displayed pressing the "CHANGE" button will alternate between the avoptions "GCE(Grid Charging Enable)" and "GCD(Grid charging disable)" as dispalyed above. Default value "GCD"		narging mode options. Charging mode v	will have two						
UPS/INVERTER Mode	Selection								
4A. On Pressing "SET" button once - UPS/Inverter present Setting will be displayed.	ENABLE	DISABLE							
4B. While "UPS/Inverter Mode" Setting is displayed pressing the "CHANGE" button will alternate between the avand "UPE" (UPS Mode Enable) as displayed per battery above. Default Selection is "UPD".	/ailable Setting options. UPS/Invert	ter will have two options "UPD"(UPS Mo	ode Disable)						
Battery Low Cut Selec	ction								
5A. On Pressing "SET" button once - Battery Low Cut present Setting will be displayed.	10.8V	10.5V							
5B. While "BATTERY LOW CUT" setting is displayed, pressing the "CHANGE" button will alternate between the a displayed per battery above. Default Selection is "10.8" . IF LiFePo4 battery Selected then the battery low al			d "10.5" as						
Charger Mode for Tubulat battery	in case of low backup								
6A. ON Pressing "SET" button once - Charger Mode for tubular battery present Setting will be displayed.	10.8V	10.5V							
6B. While "Charger Mode only for tubular battery" setting is dispalyed, pressing the "CHANGE" button will altern "OFF" and "ON" as display above. Default Selection is OFF". Once Charger mode on system output turn off and system will charger battery by 10A with Boost Voltage 14 float level and clear the charger Mode. Note Setting will not work, Means once the charger mode on; No other setting will work in system. If u wan last setting after float level.	4.8V/Batt. It will take 3 hour on boo	ost volatge or current less then 3A then	n it will go to						
NOTE: RESET Switch is press for approx2 Sec Then LCD Screen Hold and again Press approx 2Sec LCD Screen resetted to default value.	Release and if Long Press approx	2Sec after the beep sound then the all	setting will be						
Voltaio Industrias But I td. Inida			recurse in						









AN ISO 9001:2015 CERTIFIED CO.

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