



# NKB TECHNOCRATS PVT. LTD.

YOUR TRUSTED TECHNOLOGY PARTNER

We are Bringing Smart Lithium (LiFePo4)  
Battery Based ESS.



## Lithium BATTERY INVERTER

### SALIENT FEATURES

- ECO Friendly
- Dynamically Controlled Algorithm Based BMS Ensures Safety of Lithium Battery
- Elegant & Compact Design
- Light Weight so wall Mountable
- Fast Charging
- Compatible for Computer Load
- Inbuilt LiFePo4 Battery
- Resettable Circuit Breaker
- Grid Charging Enable/Disable
- Pure DSP Sine Wave Technology
- Smart Bypass Switch for Emergency
- Wide Input Voltage Range (100V - 280V)
- Inbuilt Solar Charge Controller
- Smart LCD Display
- Easy to Install
- Pollution Free
- High, Low Charging Setting
- Maintenance Free
- Inbuilt Lithium Battery Solar Inverter

### FEATURES AND PROTECTIONS



PV  
REVERSE



BATTERY  
REVERSE



SHORT CIRCUIT  
AT MAINS



SHORT CIRCUIT  
AT OUT PUT



OVER  
TEMPERATURE



OVER  
LOAD



EMERGENCY  
BYPASS



HIGH BATTERY  
VOLTAGE



NO HASSLE  
OF BATTERY  
WATER TOP UP

# Lithium

## BATTERY INVERTER

### Specifications

S.No.	Parameter	Unit	Rating		
			1100/12V	2100/24V	2500/24V
	Model Name				
1.	System Rating	VA	1100	100	2500
2.	Full Load Input Current	Amp	65	65	85
3.	Operating DC Voltage	VA	12.8	25.6	25.6
4.	Input Voltage max Voc (PV)	Vdc	25	45	45
5.	Maximum Solar Array Power (PV)	Wp	1000	1680	2000
6.	Battery	V	12.8V 66AH / 12.8V 80AH LiFePo4	25.6V 80AH LiFePo4	25.6V 80AH LiFePo4
7.	Capacity		1.02Kwh	2.04Kwh	2.04Kwh
8.	Backup Time @400W Load	Hr		2.5 / 3	
9.	Backup Time @100% Load	Hr		1.25 / 1.5	
10.	Battery Life	Yr		15	
11.	Type of Solar Charger			PWM	
12.	Efficiency of SCC	%		>90	
13.	Nominal Output Voltage in Inverter Mode	Vac		200V + 7V	
14.	Output Supply Phases			Single	
15.	Nominal Output Frequency of Inverter	Hz		50 + 1	
16.	Output Voltage Regulation 10.8-14.4V	%		180 - 220	
17.	Crest Factor			03:01	
18.	Overload Capacity 125%	Sec		6 (6 Retry)	
19.	Overload Capacity 100%	Sec		2 (6 Retry)	
20.	Battery Low Voltage Alarm Per Battery	Vdc		10.8 + 0.2	
21.	Battery Low Voltage Cut Per Battery	Vdc		16A + 2A (with 4 Retry)	
22.	Battery Low Cut Recovery Per Battery Through Solar	Vdc		12.8 + 0.2 (or Mains or Reset Switch on Front Panel)	
23.	Max Battery Charging Voltage by Grid Per Battery	Vdc		14.0/28.0 + 0.2	
24.	Max Battery Charging Current by Grid in Hi/Li Option	Vdc		16A + 2A	
25.	Max Battery Charging Voltage by Solar Per Battery	Vdc		14.0/28.2 + 0.2	
26.	Max Battery Charging Reconnect Voltage by Solar and Grid Per Battery with LiPo4			13.6 + 0.2	
27.	Battery High Cut with Alarm Per Battery	Vdc		15.5 + 0.2	
28.	Battery High Cut Recovery Per Battery	Vdc		14.5 + 0.2	
29.	Max Battery Charging Current by Solar	Adc		30 + 2A	
30.	Max Charging Current to Battery by Solar+Grid	Adc		30 + 2A	
31.	Grid Low Cut Voltage (IT load/Normal Load)	Vdc		180/100 + 10	
32.	Grid Low Cut Voltage recovery (IT Load/Normal Load)	Vac		190/100 + 10	
33.	Grid High Cut Voltage (IT Load/Normal Load)	Vac		265/280 + 10	
34.	Grid High Cut Voltage Recovery (IT Load/Normal Load)			255/270 + 10	
35.	Grid Charging Enable/Disable	Vac		Yes	
36.	Selection of UPS Load/Normal Load			Yes	
37.	Output Voltage at No Load at Rated Battery Voltage	Vac		220 + 2	
38.	Input Current at No Load at Nominal Battery Voltage	Aac		2.4 + 0.2	
39.	Noise @ 1 Meter	dB		<50	
40.	Protections			Overload, Battery Deep Discharge, Battery Overcharge, Short Circuit (1retry), Battery Hi, PV Reverse, Over Temp, Fuse Trip, Battery Reverse	
41.	LCD Display Parameters			PV Current, Battery Voltage, Mains Voltage, UPS ON/OFF, UPS Mode, Solar Available, Load Percentage (0 to 150%), Over Load, Short ckt, Fault, Battery Low, Over Temp, PV reverse, Fuse Trip.	
42.	Indication LEDs			Tact Switch Status	
43.	Operating Temperature Range	OC		0-50	
44.	Storage temperature Range	OC		0 + 65	
45.	Max RH	%		95	
46.	Front Panel Details ( MCB, Display, Selection Switch etc.)			Display with Tact Switch	
47.	Changeover time from Inverters to Mains in UPS Mode	ms		<10	
48.	Changeover time from Inverters to Mains in Normal Mode	ms		<10	
49.	Changeover time from Mains to Inverters in UPS Mode	ms		<10	
50.	Changeover time from Mains to Inverters in Normal	ms		<40	
51.	Input Protection			Resettable Circuit Breaker	
52.	Installation Type			Wall Mount	



**FAST CHARGING**



**SMALL FORM FACTOR**



**MAINTENANCE FREE**



**HIGHER BACKUP**



**LONGER LIFE**



**5 YEARS WARRANTY**

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