



# UNLEASHED POVER

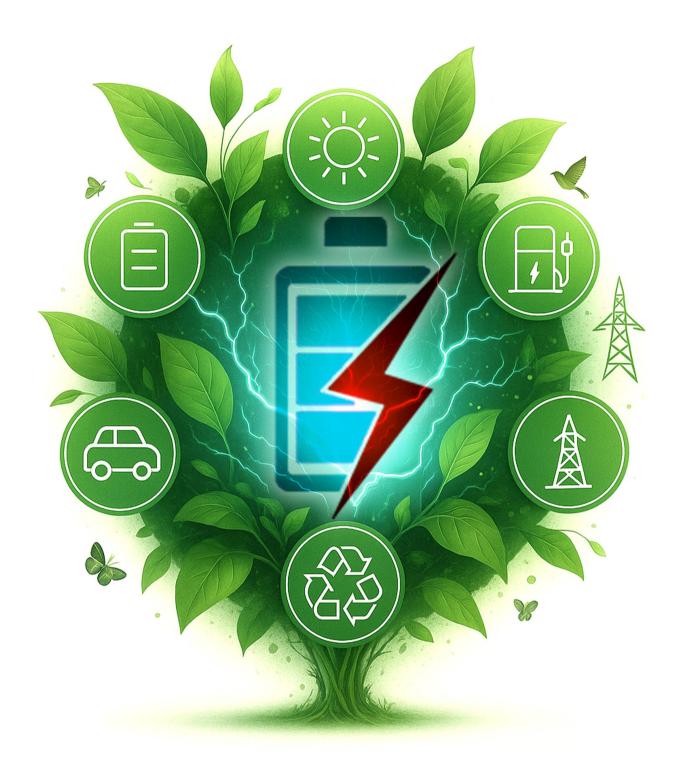




**UNLIMITED GREEN STORAGE** 

www.lith-on.com





UNLIMITED GREEN STORAGE



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# INTRODUCTION

#### POWERING THE FUTURE WITH SMART ENERGY STORAGE

WELCOME TO LITH-ON, WHERE INNOVATION MEETS SUSTAINABILITY.

AS PIONEERS IN LITHIUM-BASED ENERGY STORAGE, WE'RE REDEFINING

HOW THE WORLD CONSUMES POWER. WHETHER IT'S INDUSTRIAL,

COMMERCIAL, OR UTILITY-SCALE NEEDS — OUR INTELLIGENT,

ECO-CONSCIOUS SOLUTIONS OFFER UNMATCHED RELIABILITY AND

PERFORMANCE. DIVE INTO A WORLD OF ENERGY SOLUTIONS

ENGINEERED FOR THE FUTURE — CLEANER, SAFER, AND SMARTER.

YOUR JOURNEY TO SEAMLESS POWER BEGINS HERE.

# GREEN & CLEAN



### VISION & MISSION



#### VISION

TO BE A GLOBAL LEADER IN

NEXT-GENERATION

LITHIUM BATTERY

TECHNOLOGY, DRIVING

THE SHIFT

TOWARDS A GREENER,

SMARTER ENERGY

ECOSYSTEM.



#### **MISSION**

TO EMPOWER INDUSTRIES
AND COMMUNITIES
WITH CUTTING-EDGE
ENERGY STORAGE
SOLUTIONS THAT ARE
RELIABLE, SUSTAINABLE,
AND EFFICIENT.



## **LONG LASTING**

Lith-On batteries are the best choice to power your home inverter during long power-cuts. They are optimal designed to provide the best of power and resilience.

From Lead-Acid batteries to Lithium batteries, we offer a stellar range of quality with enhanced safety & low maintenance. Our batteries are compatible with all inverters and work best.



**LONG LIFE** 



**RECYCLABLE** 



**ENHANCED SAFETY** 



LOW MAINTENANCE











10+ Years Life



LCD Display



With State of Charge Design



Multi Function



Support Fast Charging



Modern Wall Mount



Eco Friendly



Support High Discharge Up To 100A

#### **PRODUCT FEATURES**

LCD Display For Monitoring Energy Storage, Power Data

& Operating Status.

High-Quality LiFePO4 Battery For Safety, Deep Cycle And

Long Lifespan.

Metal Casing That Ensures Explosion - Proof Safety.

Easy Installation Across Various Location With Ease.

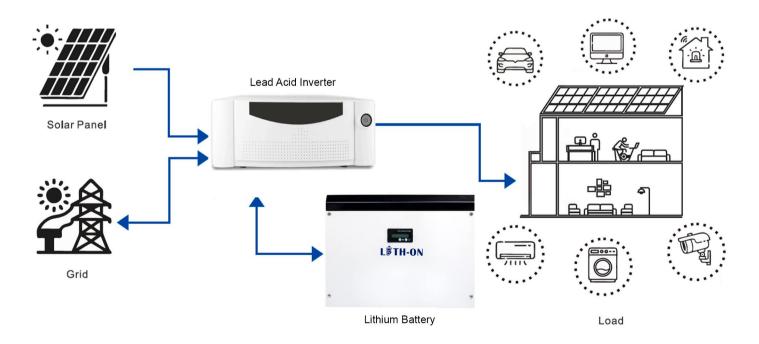
In-Built BMS For Over-Voltage, Over-Load And

Over-Temperature Protection.

Comes With Dual Mode - (UPS / INVERTER)

Installation Option: Floor / Walls.

	1 KWH Lead Acid Replacement - Lithium Battery				
S. No.	Parameter	Unit	Rating		
1	Battery Type		LiFePO4 Battery		
2	Cell Model	Ah	100		
3	Nominal Capacity		100Ah @0.5C 100%DOD		
4	Nominal Voltage (Cell)	V	3.2V		
5	Approx. Dimensions	mm	L174xT48.5xH133		
6	Approx. Weight	kg	2.2Kg		
7	Charge Voltage	V	14.2-14.6V		
8	Charge Mode		0.2C to 14.6V, then 14.6V, charge current to 0.02C (CC/CV)		
9	Charge Current		20A		
10	Max charge Current		100A		
11	Max Discharge Current	A	100A		
12	Peak Discharge Current	Α	400A±80A 0.5-1.5S		
13	Discharge Cut-off Voltage	V	10V±0.5V		
14	Nominal Voltage		12.8V		
15	Energy		1280Wh		
16	Cycle Life		>6000 cycles @100%DOD		
17	Charge Temperature	14	0 to 55 (32F to 131F) @60± 25% Relative Humidity		
18	Discharge Temperature		20 to 60 (-4F to 140F) @60 ±25% Relative Humidity		
19	IP Class		IP65		
20	Cabinet	/	Metal		









10+ Years Life



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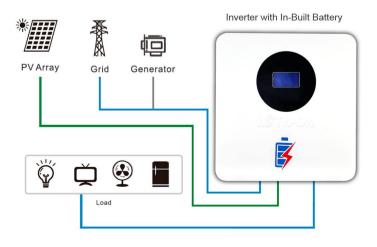
Eco Friendly



Support High Discharge Up To 100A

#### **PRODUCT FEATURES**

- LCD Display For Monitoring Energy Storage, Power Data
   & Operating Status.
- High-Quality LiFePO4 Battery For Safety, Deep Cycle And Long Lifespan.
- Metal Casing That Ensures Explosion Proof Safety.
- Easy Installation Across Various Location With Ease.
- In-Built BMS For Over-Voltage, Over-Load And Over-Temperature Protection.
- Comes With Dual Mode (UPS / INVERTER)
- Installation Option: Floor / Walls.



	600 - VA - Off Grid Solar In	verte	er With In-Built Lithium Battery
S. No.	Parameter	Unit	Rating
1	Model name (600 VA)		600
2	System rating	VA	600 (480 WATT)
3	Battery Type (Inbuilt)		Lithium Ion (Lifepo4)
		AH	50/86/100
4	Full Load Input Current ±2A	Amp	45
5	Operating DC voltage	V	12.8
6	Input voltage max Voc	Vdc	25
7	Maximum Solar array power	Wp	660
8	Switching element in SCC		MOSFET
9	Type of control		Micro
10	Type of solar charger		PWM
11	Max current rating of SCC	Adc	40.0
12	Efficiency of MPP tracking	%	NA
13	Efficiency of SCC	%	>90
14	Switching element in Inverter		MOSFET
15	Type of Control		PWM
16	Nominal Output voltage in inverter mode	Vac	220V ± 7V
17	Output supply phases		single
18	Nominal Output Frequency of Inverter	Hz	50±1
19	Frequency (Min - Max during Grid by pass) UPS mode	Hz	47-53
20	Frequency (Min - Max during Grid by pass) Inverter mode	Hz	40-60
21	Output voltage regulation	%	180-220
22	Output THD (v) at linear load	%	180-220 <5%
23	Creast Factor	70	
		Con	03:01
24	Overload capacity 125%	Sec	6 (6 Retry)
25	Overload capacity 150%	Sec	2 (6 Retry)
26	Cooling Fan ON at temp	°C	60 (or 45% of rated Load or Solar I>15A)
27	Cooling Fan Off at temp	°C	55 (or 40% of rated Load or Solar I<15A)
28	Peak efficiency of inverter	%	< 82
29	Battery low voltage alarm	Vdc	11.0 ± 0.2
30	Battery low voltage cut y	Vdc	10.8 ± 0.2 (With 4 Retry)
31	Batter low cut recovery per battery through Solar	Vdc	12.7 ± 0.2 (or Mains or reset swich on front panel)
32	Max Battery charging voltage by grid	Vdc	14.2 ± 0.2
33	Max Battery charging current by grid	Adc	15A±2A
34	Max Battery charging voltage by Solar	Vdc	15.3 ± 0.2
35	Battery High cut with Alarm	Vdc	15.0±0.2
37	Max Battery charging current by Solar	Adc	15±2A
38	Max Charging current to battery by Solar+Grid	Adc	15±2A
39	Grid low cut voltage (IT load/Normal load)	Vac	180/100 ± 10
40	Grid low cut voltage recovery (IT load/Normal load)	Vac	190/110 ± 10
41	Grid high cut voltage (IT load/Normal load)	Vac	265/280 ± 10
42	Grid high cut voltage recovery (IT load/Normal load)	Vac	255/270 ± 10
43	Grid charging Enable/Disable		yes
44	Selection of UPS Load/Normal Load		yes
45	Input current at no load at Nominal Battery voltage	Adc	<2
46	Noise @ 1 meter	dB	<50
	Protections		Overload, Battery Deep discharge,Battery Overcharge,Short circuit(1retry),Battery Hi,PV Reverse,Over Temp,Fuse/MCB Trip,battery reverse.
47	LCD Display parameters		PV Current, Battery voltage, Mains voltage, UPS ON/OFF, UPS Mode, Symbol of sun (Smily) if solar available, (non smily symbol in absence of solar), Load percentage (0 to 150%), over load, short ckt, fault, battery low, over temp, PV reverse, Fuse trip, (Customised LCD)
48	Indication LEDs		Tact switch Status
49	Operating Temperature range	°C	0-50
51	Storage Temperature range	°C	0 +65
	Max RH	%	95
52	Front panel details (Display, Selection switch etc)		Display with tact switch
53	Enclosure protection		IP20
54	Changeover time in UPS mode	ms	<10
	Changeover time in Normal mode (Inv mode)	ms	<40
55			Posettable Circuit breaker
55 56	Input Protection		Resettable Circuit breaker
	Input Protection Backup @ 400Watt Load	Hrs	2.00 -3.25
56		Hrs Kg	







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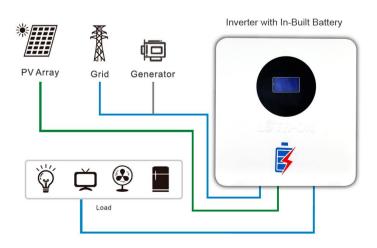
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Support High Discharge Up to 100A

#### **PRODUCT FEATURES**

- LCD Display For Monitoring Energy Storage, Power Data
   & Operating Status.
- High-Quality LiFePO4 Battery For Safety, Deep Cycle And Long Lifespan.
- Metal Casing That Ensures Explosion Proof Safety.
- Easy Installation Across Various Location With Ease.
- In-Built BMS For Over-Voltage, Over-Load And Over-Temperature Protection.
- Comes With Dual Mode (UPS / INVERTER)
- Installation Option: Floor / Walls.



	KVA - Off Grid Solar Inverter	with ir	n-Built Lithium Battery - 50/80/100Ah
S. No.	Parameter	Unit	Rating
1	Model name (1 KVA)		1000
2	System rating	VA	1000 (800 WATT)
3	Battery Type (Inbuilt)	A11	Lithium Ion (Lifepo4)
4	Full Load Innut Current +2A	AH	50/86/100 63
5	Full Load Input Current ±2A	Amp	12.8
6	Operating DC voltage	Vdc	25
7	Input voltage max Voc  Maximum Solar array power	Wp	660
8	Switching element in SCC	VVP	MOSFET
9	Type of control		Micro
10	Type of solar charger		PWM
11	Max current rating of SCC	Adc	40.0
12	Efficiency of MPP tracking	%	NA NA
13	Efficiency of SCC	%	>90
14	Switching element in Inverter	70	MOSFET
15	Type of Control		PWM
16	Nominal Output voltage in inverter mode	Vac	220V ± 7V
17	Output supply phases	Vuc	single
18	Nominal Output Frequency of Inverter	Hz	50 ± 1
19	Frequency (Min - Max during Grid by pass) UPS mode	Hz	47-53
20	Frequency (Min - Max during Grid by pass) Inverter mode	Hz	40-60
21	Output voltage regulation	%	180-220
22	Output THD (v) at linear load	%	<5%
23	Creast Factor	70	03:01
24	Overload capacity 125%	Sec	6 (6 Retry)
25	Overload capacity 123% Overload capacity 150%	Sec	2 (6 Retry)
26		°C	
27	Cooling Fan ON at temp	°C	60 (or 45% of rated Load or Solar I>15A)
28	Cooling Fan Off at temp	%	55 (or 40% of rated Load or Solar I<15A)
29	Peak efficiency of inverter		< 82
30	Battery low voltage alarm	Vdc	11.0 ± 0.2
	Battery low voltage cut y	Vdc	10.8 ± 0.2 (With 4 Retry)
31	Batter low cut recovery per battery through Solar	Vdc	12.7 ± 0.2 (or Mains or reset swich on front panel)
	Max Battery charging voltage by grid	Vdc	14.2 ± 0.2
33	Max Battery charging current by grid	Adc	15A±2A
	Max Battery charging voltage by Solar	Vdc	14. ± 0.2
35	Battery High cut with Alarm	Vdc	15.±0.2
37	Max Battery charging current by Solar	Adc	25±2A
38	Max Charging current to battery by Solar+Grid	Adc	25±2A
39	Grid low cut voltage (IT load/Normal load)	Vac	180/100 ± 10
40	Grid low cut voltage recovery (IT load/Normal load)	Vac	190/110 ± 10
41	Grid high cut voltage (IT load/Normal load)	Vac	265/280 ± 10
42	Grid high cut voltage recovery (IT load/Normal load)	Vac	255/270 ± 10
43	Grid charging Enable/Disable		yes
44	Selection of UPS Load/Normal Load		yes
45	Input current at no load at Nominal Battery voltage	Adc	<2
46	Noise @ 1 meter	dB	<50
	Protections		Overload, Battery Deep discharge,Battery Overcharge,Short circuit(1retry),Battery Hi,PV Reverse,Over Temp,Fuse/MCB Trip,battery reverse.
47	LCD Display parameters		PV Current, Battery voltage, Mains voltage, UPS ON/OFF, UPS Mode, Symbol of sun (Smily) if solar available, (non smily symbol in absence of solar), Load percentage (0 1 150%), over load, short ckt, fault, battery low, over temp, PV reverse, Fuse trip, (Customised LCD)
48	Indication LEDs		Tact switch Status
49	Operating Temperature range	°C	0-50
51	Storage Temperature range	°C	0 +65
52	Max RH  Front panel details (Display, Selection switch etc)	%	95 Display with tact switch
			And the Control of th
53	Enclosure protection		IP20
54	Changeover time in UPS mode	ms	<10
55	Changeover time in Normal mode (Inv mode)	ms	<40
56	Input Protection		Resettable Circuit breaker
57	Backup @ 400Watt Load	Hrs	2.00 -3.25
58	Weight without Packing	Kg	18-21
59	Dimension (LXWXH) without Packing	MM	445x385x170







10+ Years Life



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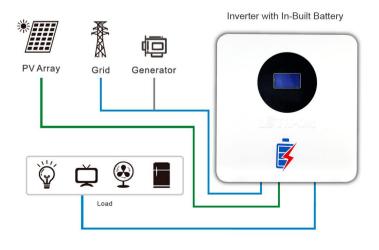
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- Metal Casing That Ensures Explosion Proof Safety.
- Easy Installation Across Various Location With Ease.
- In-Built BMS For Over-Voltage, Over-Load And Over-Temperature Protection.
- Comes With Dual Mode (UPS / INVERTER)
- Installation Option: Floor / Walls.



5 Operating DC v 6 Input voltage r 7 Maximum Sola 8 Switching elem 9 Type of contro 10 Type of solar c 11 Max current ra 12 Efficiency of M 13 Efficiency of M 13 Efficiency of Sol 14 Switching elem 15 Type of Contro 16 Nominal Output 17 Output supply 18 Nominal Output 19 Frequency (Mi 20 Frequency (Mi 21 Output voltage 22 Output THD (v 23 Creast Factor 24 Overload capa 25 Overload capa 26 Cooling Fan Of 27 Cooling Fan Of 28 Peak efficiency 29 Battery low vo 30 Battery low vo 31 Batter low cut 32 Max Battery ch 33 Max Battery ch 34 Max Battery ch 35 Battery High cu 36 Grid low cut vo 41 Grid high cut v 42 Grid high cut v 43 Grid charging to 44 Selection of Uf 45 Input current a 46 Noise @ 1 met 47 LCD Display pa 48 Indication LED: 49 Operating Tem 51 Storage Tempe Max RH 52 Front panel de 53 Enclosure prot 54 Changeover tir			n-Built Lithium Battery - 50/80/100Ah
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Battery Type (I  Full Load Input  Operating DC v  Input voltage r  Maximum Sola  Switching elem  Type of contro  Type of solar c  In Max current ra  Efficiency of M  Switching elem  Switching elem  Switching elem  Switching elem  Type of Contro  Nominal Output  Nominal Output  Prequency (Mi  Coutput voltage  Coulput THD (v  Couload capa  Cooling Fan Of  Rowload capa  Max Battery of  Selection of Uf  Input current a  Moise @ 1 met  Protections  An  LCD Display pa  Enclosure protections  An  LCD Display pa  Enclosure protections  An  Enclosure protections  Cohangeover tire  Cohangeover tire  Cohangeover tire  Cohangeover tire  Cohangeover tire	rating	VA	2000 (1600 WATT)
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5 Operating DC v 6 Input voltage r 7 Maximum Sola 8 Switching elem 9 Type of contro 10 Type of solar c 11 Max current ra 12 Efficiency of M 13 Efficiency of Sol 14 Switching elem 15 Type of Contro 16 Nominal Output 17 Output supply 18 Nominal Output 19 Frequency (Mi 20 Frequency (Mi 21 Output voltage 22 Output THD (v 23 Creast Factor 24 Overload capa 25 Overload capa 26 Cooling Fan Of 27 Cooling Fan Of 28 Peak efficiency 29 Battery low vo 30 Battery low vo 31 Batter low cut 32 Max Battery ch 33 Max Battery ch 34 Max Battery ch 35 Battery High cu 36 Grid low cut vo 41 Grid high cut v 42 Grid high cut v 43 Grid charging to 44 Selection of Uf 45 Input current a 46 Noise @ 1 met 47 LCD Display pa 48 Indication LED 49 Operating Tem 51 Storage Tempe Max RH 52 Front panel de 53 Enclosure prot 54 Changeover tir 55 Changeover tir 55 Changeover tir	7,75 (	AH	50/86/100
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Maximum Sola  Switching elem  Type of contro  Type of solar c  If Max current ra  Efficiency of M  Switching elem  Switching elem  Friction of Max current ra  Efficiency of Solar  Max current ra  Efficiency of Solar  Nominal Output  Nominal Output  Nominal Output  Coutput supply  Requency (Mi  Output voltage  Output THD (v  Couling Fan On  Cooling Fan On  Cooling Fan On  Read efficiency  Battery low vo  Max Battery ch  Grid low cut vo  Grid low cut vo  Grid high cut v  Grid high cut v  Cooling Fan  Front panel de  Max RH  Coperating Fem  Max RH  Coperating Fem  Storage Tempe  Max RH  Cohangeover tir  Changeover tir  Changeover tir  Changeover tir	ng DC voltage	V	25.6
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15 Type of Control 16 Nominal Output 17 Output supply 18 Nominal Output 19 Frequency (Mi 20 Frequency (Mi 21 Output voltage 22 Output THD (v 23 Creast Factor 24 Overload capa 25 Overload capa 26 Cooling Fan Of 27 Cooling Fan Of 28 Peak efficiency 29 Battery low vo 30 Battery low vo 31 Batter low cut 32 Max Battery cl 33 Max Battery cl 34 Max Battery cl 35 Battery High cu 37 Max Battery cl 38 Max Charging cl 39 Grid low cut vo 40 Grid low cut vo 41 Grid high cut v 42 Grid high cut v 43 Grid charging cl 44 Selection of Uf 45 Input current a 46 Noise @ 1 met 47 LCD Display pa 48 Indication LED 49 Operating Tem 51 Storage Tempe 48 Inclosure prot 54 Changeover tir 55 Changeover tir 55 Changeover tir	y of SCC	%	>90
16 Nominal Output 17 Output supply 18 Nominal Output 19 Frequency (Mi 20 Frequency (Mi 21 Output voltage 22 Output THD (v 23 Creast Factor 24 Overload capa 25 Overload capa 26 Cooling Fan Of 27 Cooling Fan Of 28 Peak efficiency 29 Battery low vo 30 Battery low vo 31 Batter low cut 32 Max Battery cl 33 Max Battery cl 34 Max Battery cl 35 Battery High cu 37 Max Battery cl 38 Max Charging cl 39 Grid low cut vo 40 Grid low cut vo 41 Grid high cut v 42 Grid high cut v 43 Grid charging cl 44 Selection of Uf 45 Input current a 46 Noise @ 1 met 47 LCD Display pa 48 Indication LED 49 Operating Tem 51 Storage Tempe 51 Storage Tempe 53 Enclosure prot 54 Changeover tir 55 Changeover tir	ng element in Inverter		MOSFET
17 Output supply 18 Nominal Output 19 Frequency (Mi 20 Frequency (Mi 21 Output voltage 22 Output THD (v 23 Creast Factor 24 Overload capa 25 Overload capa 26 Cooling Fan Of 27 Cooling Fan Of 28 Peak efficiency 29 Battery low vo 30 Battery low vo 31 Battery low cut 32 Max Battery ch 33 Max Battery ch 34 Max Battery ch 35 Battery High cu 37 Max Battery ch 38 Max Charging 39 Grid low cut vo 40 Grid low cut vo 41 Grid high cut v 42 Grid high cut v 43 Grid charging f 44 Selection of Uf 45 Input current a 46 Noise @ 1 met 47 LCD Display pa 48 Indication LED 49 Operating Tem 51 Storage Tempe 51 Storage Tempe 53 Enclosure prot 54 Changeover tir 55 Changeover tir	Control		PWM
18 Nominal Output 19 Frequency (Mi 20 Frequency (Mi 21 Output voltage 22 Output THD (v 23 Creast Factor 24 Overload capa 25 Overload capa 26 Cooling Fan Of 27 Cooling Fan Of 28 Peak efficiency 29 Battery low vo 30 Battery low vo 31 Batter low cut 32 Max Battery ch 33 Max Battery ch 34 Max Battery ch 35 Battery High cu 36 Grid low cut vo 37 Max Battery ch 38 Grid low cut vo 40 Grid low cut vo 41 Grid high cut v 42 Grid high cut v 43 Grid charging to 44 Selection of Uf 45 Input current a 46 Noise @ 1 met 47 LCD Display pa 48 Indication LED 49 Operating Tem 51 Storage Tempe 51 Storage Tempe 53 Enclosure prot 54 Changeover tir 55 Changeover tir	Output voltage in inverter mode	Vac	220V ± 7V
19 Frequency (Mi 20 Frequency (Mi 21 Output voltage 22 Output THD (v 23 Creast Factor 24 Overload capa 25 Overload capa 26 Cooling Fan Of 27 Cooling Fan Of 28 Peak efficiency 29 Battery low vo 30 Battery low vo 31 Batter low cut 32 Max Battery ch 33 Max Battery ch 34 Max Battery ch 35 Battery High ch 36 Grid low cut vo 40 Grid low cut vo 41 Grid high cut v 42 Grid high cut v 43 Grid charging f 44 Selection of Uf 45 Input current a 46 Noise @ 1 met 47 LCD Display pa 48 Indication LED 49 Operating Tem 51 Storage Temper 51 Storage Temper 52 Front panel de 53 Enclosure prot 55 Changeover tir 55 Changeover tir	supply phases		single
20 Frequency (Mi 21 Output voltage 22 Output THD (v 23 Creast Factor 24 Overload capa 25 Overload capa 26 Cooling Fan Of 27 Cooling Fan Of 28 Peak efficiency 29 Battery low vo 30 Battery low vo 31 Batter low cut 32 Max Battery cf 33 Max Battery cf 34 Max Battery cf 35 Battery High ct 37 Max Battery cf 38 Max Charging f 39 Grid low cut vo 40 Grid low cut vo 41 Grid high cut v 42 Grid high cut v 43 Grid charging f 44 Selection of Uf 45 Input current a 46 Noise @ 1 met 47 LCD Display pa 48 Indication LED 49 Operating Tem 51 Storage Temper 51 Storage Temper 52 Front panel de 53 Enclosure prot 54 Changeover tir 55 Changeover tir	Output Frequency of Inverter	Hz	50 ± 1
21 Output voltage 22 Output THD (v 23 Creast Factor 24 Overload capa 25 Overload capa 26 Cooling Fan Of 27 Cooling Fan Of 28 Peak efficiency 29 Battery low vo 30 Battery low vo 31 Batter low cut 32 Max Battery ch 33 Max Battery ch 34 Max Battery ch 35 Battery High cu 36 Grid low cut vo 40 Grid low cut vo 41 Grid high cut v 42 Grid high cut v 43 Grid charging t 44 Selection of Uf 45 Input current a 46 Noise @ 1 met 47 LCD Display pa 48 Indication LED 49 Operating Tem 51 Storage Temper 52 Front panel de 53 Enclosure prot 54 Changeover tir 55 Changeover tir	cy (Min - Max during Grid by pass) UPS mode	Hz	47-53
22 Output THD (v 23 Creast Factor 24 Overload capa 25 Overload capa 26 Cooling Fan Of 27 Cooling Fan Of 28 Peak efficiency 29 Battery low vo 30 Battery low vo 31 Batter low cut 32 Max Battery ch 33 Max Battery ch 34 Max Battery ch 35 Battery High cu 37 Max Battery ch 38 Grid low cut vo 40 Grid low cut vo 41 Grid high cut v 42 Grid high cut v 43 Grid charging ch 44 Selection of Uf 45 Input current a 46 Noise @ 1 met 47 LCD Display pa 48 Indication LED 49 Operating Tem 51 Storage Temper 52 Front panel de 53 Enclosure prot 54 Changeover tir 55 Changeover tir	cy (Min - Max during Grid by pass) Inverter mode	Hz	40-60
23 Creast Factor 24 Overload capa 25 Overload capa 26 Cooling Fan Of 27 Cooling Fan Of 28 Peak efficiency 29 Battery low vo 30 Battery low vo 31 Batter low cut 32 Max Battery ch 33 Max Battery ch 34 Max Battery ch 35 Battery High ch 37 Max Battery ch 38 Max Charging 39 Grid low cut vo 40 Grid low cut vo 41 Grid high cut v 42 Grid high cut v 43 Grid charging th 44 Selection of Uf 45 Input current a 46 Noise @ 1 met 47 LCD Display pa 48 Indication LED 49 Operating Tem 51 Storage Tempe 51 Storage Tempe 53 Enclosure prot 54 Changeover tir 55 Changeover tir	voltage regulation	%	180-220
24 Overload capa 25 Overload capa 26 Cooling Fan Of 27 Cooling Fan Of 28 Peak efficiency 29 Battery low vo 30 Battery low vo 31 Batter low cut 32 Max Battery ch 33 Max Battery ch 34 Max Battery ch 35 Battery High cu 37 Max Battery ch 38 Max Charging ch 39 Grid low cut vo 40 Grid low cut vo 41 Grid high cut v 42 Grid high cut v 43 Grid charging ch 44 Selection of Uf 45 Input current a 46 Noise @ 1 met 47 LCD Display pa 48 Indication LED 49 Operating Tem 51 Storage Tempe Max RH 52 Front panel de 53 Enclosure prot 54 Changeover tir 55 Changeover tir	THD (v) at linear load	%	<5%
25 Overload capa 26 Cooling Fan Of 27 Cooling Fan Of 28 Peak efficiency 29 Battery low vo 30 Battery low vo 31 Batter low cut 32 Max Battery ch 33 Max Battery ch 34 Max Battery ch 35 Battery High ch 37 Max Battery ch 38 Max Charging ch 39 Grid low cut vo 40 Grid low cut vo 41 Grid high cut v 42 Grid high cut v 43 Grid charging ch 44 Selection of Uf 45 Input current a 46 Noise @ 1 met 47 LCD Display pa 48 Indication LED 49 Operating Tem 51 Storage Tempe 51 Storage Tempe 53 Enclosure prot 54 Changeover tir 55 Changeover tir	actor		03:01
25 Overload capa 26 Cooling Fan Of 27 Cooling Fan Of 28 Peak efficiency 29 Battery low vo 30 Battery low vo 31 Batter low cut 32 Max Battery ch 33 Max Battery ch 34 Max Battery ch 35 Battery High cu 36 Max Battery ch 37 Max Battery ch 38 Max Charging ch 39 Grid low cut vo 40 Grid low cut vo 41 Grid high cut v 42 Grid high cut v 43 Grid charging ch 44 Selection of Uf 45 Input current a 46 Noise @ 1 met 47 LCD Display pa 48 Indication LED 49 Operating Tem 51 Storage Tempe 51 Storage Tempe 52 Front panel de 53 Enclosure prot 54 Changeover tir 55 Changeover tir	d capacity 125%	Sec	6 (6 Retry)
26 Cooling Fan Of 27 Cooling Fan Of 28 Peak efficiency 29 Battery low vo 30 Battery low vo 31 Batter low cut 32 Max Battery ch 33 Max Battery ch 34 Max Battery ch 35 Battery High cu 36 Max Battery ch 37 Max Battery ch 38 Max Charging 39 Grid low cut vo 40 Grid low cut vo 41 Grid high cut v 42 Grid high cut v 43 Grid charging 6 44 Selection of Uf 45 Input current a 46 Noise @ 1 met 47 LCD Display pa 48 Indication LED 49 Operating Tem 51 Storage Tempe 51 Storage Tempe 52 Front panel de 53 Enclosure prot 54 Changeover tir 55 Changeover tir	d capacity 150%	Sec	2 (6 Retry)
27 Cooling Fan Of 28 Peak efficiency 29 Battery low vo 30 Battery low vo 31 Batter low cut 32 Max Battery ch 33 Max Battery ch 34 Max Battery ch 35 Battery High cu 36 Max Charging ch 37 Max Battery ch 38 Max Charging ch 39 Grid low cut vo 40 Grid low cut vo 41 Grid high cut v 42 Grid high cut v 43 Grid charging ch 44 Selection of Uf 45 Input current a 46 Noise @ 1 met 47 LCD Display pa 48 Indication LED 49 Operating Tem 51 Storage Temper 51 Storage Temper 52 Front panel de 53 Enclosure prot 54 Changeover tir 55 Changeover tir		°C	60 (or 45% of rated Load or Solar I>15A)
28 Peak efficiency 29 Battery low vo 30 Battery low vo 31 Batter low cut 32 Max Battery ch 33 Max Battery ch 34 Max Battery ch 35 Battery High cu 36 Max Charging 39 Grid low cut vo 40 Grid low cut vo 41 Grid high cut v 42 Grid high cut v 43 Grid charging 44 Selection of Uf 45 Input current a 46 Noise @ 1 met 47 LCD Display pa 48 Indication LED 49 Operating Tem 51 Storage Temper Max RH 52 Front panel de 53 Enclosure prot 54 Changeover tir 55 Changeover tir		°C	55 (or 40% of rated Load or Solar I<15A)
29 Battery low vo 30 Battery low vo 31 Batter low cut 32 Max Battery ch 33 Max Battery ch 34 Max Battery ch 35 Battery High cu 36 Max Charging ch 37 Max Battery ch 38 Max Charging ch 39 Grid low cut vo 40 Grid low cut vo 41 Grid high cut v 42 Grid high cut v 43 Grid charging ch 44 Selection of Uf 45 Input current ch 46 Noise @ 1 met 47 Protections 47  48 Indication LED 49 Operating Tem 51 Storage Temper 51 Storage Temper 52 Front panel de 53 Enclosure prot 54 Changeover tir 55 Changeover tir		%	< 82
30 Battery low vo 31 Batter low cut 32 Max Battery ch 33 Max Battery ch 34 Max Battery ch 35 Battery High cu 36 Max Battery ch 37 Max Battery ch 38 Max Charging ch 39 Grid low cut vo 40 Grid low cut vo 41 Grid high cut v 42 Grid high cut v 43 Grid charging ch 44 Selection of Uf 45 Input current ch 46 Noise @ 1 met 47 Protections 47  48 Indication LED 49 Operating Tem 51 Storage Temper 51 Storage Temper 52 Front panel de 53 Enclosure prot 54 Changeover tir 55 Changeover tir		Vdc	22.0 ± 0.4
31 Batter low cut 32 Max Battery ch 33 Max Battery ch 34 Max Battery ch 35 Battery High cu 37 Max Battery ch 38 Max Charging ch 39 Grid low cut vo 40 Grid low cut vo 41 Grid high cut v 42 Grid high cut v 43 Grid charging ch 44 Selection of Uf 45 Input current a 46 Noise @ 1 met 47 Protections 47  48 Indication LED 49 Operating Tem 51 Storage Temper 51 Max RH 52 Front panel de 53 Enclosure prot 54 Changeover tir 55 Changeover tir	low voltage cut per battery	Vdc	21.6 ± 0.4 (With 4 Retry)
32 Max Battery ch 33 Max Battery ch 34 Max Battery ch 35 Battery High ch 37 Max Battery ch 38 Max Charging ch 39 Grid low cut vo 40 Grid low cut vo 41 Grid high cut v 42 Grid high cut v 43 Grid charging ch 44 Selection of Uf 45 Input current a 46 Noise @ 1 met  Protections  47  LCD Display pa  48 Indication LED 49 Operating Tem 51 Storage Tempe Max RH 52 Front panel de 53 Enclosure prot 54 Changeover tir 55 Changeover tir	ow cut recovery per battery through Solar	Vdc	24.7 ± 0.2 (or Mains or reset swich on front panel)
33 Max Battery ch 34 Max Battery ch 35 Battery High ch 37 Max Battery ch 38 Max Charging a 39 Grid low cut vo 40 Grid low cut vo 41 Grid high cut v 42 Grid high cut v 43 Grid charging a 44 Selection of Uf 45 Input current a 46 Noise @ 1 met  Protections  47  LCD Display pa  48 Indication LED 49 Operating Tem 51 Storage Tempe Max RH 52 Front panel de 53 Enclosure prot 54 Changeover tir 55 Changeover tir	ttery charging voltage by grid	Vdc	28.4± 0.4
34 Max Battery ch 35 Battery High ch 37 Max Battery ch 38 Max Charging a 39 Grid low cut vo 40 Grid low cut vo 41 Grid high cut v 42 Grid high cut v 43 Grid charging a 44 Selection of Uf 45 Input current a 46 Noise @ 1 met  Protections  47  LCD Display pa  48 Indication LED 49 Operating Tem 51 Storage Tempe Max RH 52 Front panel de 53 Enclosure prot 54 Changeover tir 55 Changeover tir	ttery charging current by grid	Adc	15A±2A
35 Battery High co 37 Max Battery co 38 Max Charging 39 Grid low cut vo 40 Grid low cut vo 41 Grid high cut v 42 Grid high cut v 43 Grid charging E 44 Selection of UF 45 Input current a 46 Noise @ 1 met 47 LCD Display pa 48 Indication LED 49 Operating Tem 51 Storage Tempe Max RH 52 Front panel de 53 Enclosure prot 54 Changeover tir 55 Changeover tir	ttery charging culters by grid	Vdc	28.± 0.4
37 Max Battery ch 38 Max Charging ch 39 Grid low cut vo 40 Grid low cut vo 41 Grid high cut v 42 Grid high cut v 43 Grid charging ch 44 Selection of Uf 45 Input current ch 46 Noise @ 1 met 47 LCD Display pa 48 Indication LED 49 Operating Tem 51 Storage Temper 51 Max RH 52 Front panel de 53 Enclosure prot 54 Changeover tir 55 Changeover tir			
38 Max Charging 39 Grid low cut vo 40 Grid low cut vo 41 Grid high cut v 42 Grid high cut v 43 Grid charging E 44 Selection of UE 45 Input current a 46 Noise @ 1 met  Protections  47  LCD Display pa  48 Indication LED 49 Operating Tem 51 Storage Tempe Max RH 52 Front panel de 53 Enclosure prot 54 Changeover tir 55 Changeover tir		Vdc	30.0±0.2
39 Grid low cut vo 40 Grid low cut vo 41 Grid high cut v 42 Grid high cut v 43 Grid charging E 44 Selection of Uf 45 Input current a 46 Noise @ 1 met  Protections  47  LCD Display pa  48 Indication LED 49 Operating Tem 51 Storage Tempe Max RH 52 Front panel de 53 Enclosure prot 54 Changeover tir 55 Changeover tir	ttery charging current by Solar	Adc	25±2A
40 Grid low cut vot 41 Grid high cut v 42 Grid high cut v 43 Grid charging E 44 Selection of UF 45 Input current a 46 Noise @ 1 met 47 LCD Display pa 48 Indication LED 49 Operating Tem 51 Storage Tempe Max RH 52 Front panel de 53 Enclosure prot 54 Changeover tir 55 Changeover tir	arging current to battery by Solar+Grid	Adc	25±2A
41 Grid high cut v 42 Grid high cut v 43 Grid charging E 44 Selection of Uf 45 Input current a 46 Noise @ 1 met  Protections 47  LCD Display pa 48 Indication LED 49 Operating Tem 51 Storage Tempe Max RH 52 Front panel de 53 Enclosure prot 54 Changeover tir 55 Changeover tir	v cut voltage (IT load/Normal load)	Vac	180/100 ± 10
42 Grid high cut v 43 Grid charging E 44 Selection of UI 45 Input current a 46 Noise @ 1 met  Protections  47  LCD Display pa  48 Indication LED 49 Operating Tem 51 Storage Tempe Max RH 52 Front panel de 53 Enclosure prot 54 Changeover tir 55 Changeover tir	r cut voltage recovery (IT load/Normal load)	Vac	190/110 ± 10
43 Grid charging E 44 Selection of UF 45 Input current a 46 Noise @ 1 met  Protections  47  LCD Display pa  48 Indication LED 49 Operating Tem 51 Storage Tempe Max RH 52 Front panel de 53 Enclosure prot 54 Changeover tir 55 Changeover tir	h cut voltage (IT load/Normal load)	Vac	265/280 ± 10
44 Selection of UF 45 Input current a 46 Noise @ 1 met  Protections  47  LCD Display pa  48 Indication LED 49 Operating Tem 51 Storage Tempe Max RH 52 Front panel de 53 Enclosure prot 54 Changeover tir 55 Changeover tir	h cut voltage recovery (IT load/Normal load)	Vac	255/270 ± 10
45 Input current a 46 Noise @ 1 met 47 Protections 47  48 Indication LED 49 Operating Tem 51 Storage Tempe Max RH 52 Front panel de 53 Enclosure prot 54 Changeover tir 55 Changeover tir	rging Enable/Disable		yes
46 Noise @ 1 met Protections  47 LCD Display pa  48 Indication LED 49 Operating Tem 51 Storage Tempe Max RH 52 Front panel de 53 Enclosure prot 54 Changeover tir 55 Changeover tir	n of UPS Load/Normal Load		yes
Protections  47  LCD Display pa  48 Indication LED: 49 Operating Temperature Max RH  52 Front panel de 53 Enclosure prot 54 Changeover tir 55 Changeover tir	rrent at no load at Nominal Battery voltage	Adc	<2
48 Indication LED: 49 Operating Temper Max RH 52 Front panel de 53 Enclosure prot 54 Changeover tir 55 Changeover tir	1 meter	dB	<50
LCD Display pa  48 Indication LED: 49 Operating Temper Max RH  52 Front panel de 53 Enclosure prot 54 Changeover tir 55 Changeover tir	ons		Overload, Battery Deep discharge,Battery Overcharge,Short circuit(1retry),Batter Hi,PV Reverse,Over Temp,Fuse/MCB Trip,battery reverse.
49 Operating Tem 51 Storage Temper Max RH 52 Front panel de 53 Enclosure prot 54 Changeover tir 55 Changeover tir	olay parameters		PV Current, Battery voltage, Mains voltage, UPS ON/OFF, UPS Mode, Symbol of su (Smily) if solar available, (non smily symbol in absence of solar), Load percentage (0 150%), over load, short ckt, fault, battery low, over temp, PV reverse, Fuse trip, (Customised LCD)
51 Storage Temper Max RH 52 Front panel de 53 Enclosure prot 54 Changeover tir 55 Changeover tir	on LEDs		Tact switch Status
Max RH 52 Front panel de 53 Enclosure prot 54 Changeover tir 55 Changeover tir	ng Temperature range	°C	0-50
Front panel de 53 Enclosure prot 54 Changeover tir 55 Changeover tir	Temperature range	°C	0+65
53 Enclosure prot 54 Changeover tir 55 Changeover tir		%	95
54 Changeover tir 55 Changeover tir	nnel details (Display, Selection switch etc)		Display with tact switch
55 Changeover tir			IP20
	over time in UPS mode	ms	<10
56 Input Protection	over time in Normal mode (Inv mode)	ms	<40
			Rated MCB
77-27-27 To 1	@ 400Watt Load	Hrs	4.0-7.0
58 Weight withou	without Packing	Kg	32-38

### LFTH-ON







10+ Years Life



LCD Display



With State of Charge Design



Multi Function



Support Fast Charging



Modern Wall Mount



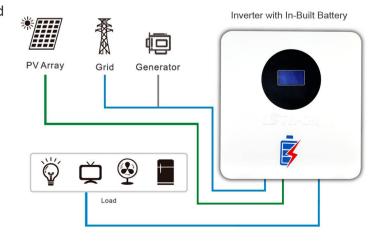
Eco Friendly



Support High Discharge Up to 100A

#### **PRODUCT FEATURES**

- LCD Display For Monitoring Energy Storage, Power Data
   & Operating Status.
- High-Quality LiFePO4 Battery For Safety, Deep Cycle And Long Lifespan.
- Metal Casing That Ensures Explosion Proof Safety.
- · Easy Installation Across Various Location With Ease.
- In-Built BMS For Over-Voltage, Over-Load And Over-Temperature Protection.
- Comes With Dual Mode (UPS / INVERTER)
- Installation Option: Floor / Walls.



	3 KVA - Off Grid Solar Inverter	AALGIL	m Bant Bitmain Battory Correct in
S. No.	Parameter	Unit	Rating
1	Model name (3 KVA)		3000
2	System rating	VA	3000 (2400 WATT)
,	Batton, Time (labrida)		Lithium Ion (Lifepo4)
3	Battery Type (Inbuilt)	AH	86/100
4	Full Load Input Current ±2A	Amp	80
5	Operating DC voltage	V	25.6
6	Input voltage max Voc	Vdc	50
7	Maximum Solar array power	Wp	2000
8	Switching element in SCC		MOSFET
9	Type of control		Micro
10	Type of solar charger		PWM
11	Max current rating of SCC	Adc	70.0
12	Efficiency of MPP tracking	%	NA
13	Efficiency of SCC	%	>90
14	Switching element in Inverter		MOSFET
15	Type of Control		PWM
16	Nominal Output voltage in inverter mode	Vac	220V ± 7V
17	Output supply phases		single
18	Nominal Output Frequency of Inverter	Hz	50 ± 1
19	Frequency (Min - Max during Grid by pass) UPS mode	Hz	47-53
20	Frequency (Min - Max during Grid by pass) Inverter mode	Hz	40-60
21	Output voltage regulation	%	180-220
22	Output THD (v) at linear load	%	<5%
		/0	
23	Creast Factor		03:01
24	Overload capacity 125%	Sec	6 (6 Retry)
25	Overload capacity 150%	Sec	2 (6 Retry)
26	Cooling Fan ON at temp	°C	60 (or 45% of rated Load or Solar I>15A)
27	Cooling Fan Off at temp	°C	55 (or 40% of rated Load or Solar I<15A)
28	Peak efficiency of inverter	%	< 82
29	Battery low voltage alarm	Vdc	22.0 ± 0.4
30	Battery low voltage cut per battery	Vdc	21.6 ± 0.4 (With 4 Retry)
31	Batter low cut recovery per battery through Solar	Vdc	24.7 ± 0.2 (or Mains or reset swich on front panel)
32	Max Battery charging voltage by grid	Vdc	28.4± 0.4
33	Max Battery charging current by grid	Adc	15A±2A
34	Max Battery charging voltage by Solar	Vdc	28.± 0.4
35	Battery High cut with Alarm	Vdc	30.0±0.2
37	Max Battery charging current by Solar	Adc	25±2A
38	Max Charging current to battery by Solar+Grid	Adc	25±2A
39	Grid low cut voltage (IT load/Normal load)	Vac	180/100 ± 10
40	Grid low cut voltage recovery (IT load/Normal load)	Vac	190/110 ± 10
41	Grid high cut voltage (IT load/Normal load)	Vac	265/280 ± 10
42	Grid high cut voltage recovery (IT load/Normal load)	Vac	255/270 ± 10
43	Grid charging Enable/Disable		yes
44	Selection of UPS Load/Normal Load		yes
45	Input current at no load at Nominal Battery voltage	Adc	<2
46	Noise @ 1 meter	dB	<50
-10		up	Overload, Battery Deep discharge,Battery Overcharge,Short circuit(1retry),Battery Hi,PV Reverse,Over Temp,Fuse/MCB Trip,battery
	Protections		reverse.
47	LCD Display parameters		
47			reverse.  PV Current, Battery voltage, Mains voltage, UPS ON/OFF, UPS Mode, Symbol of sun (Smily) if solar available, (non smily symbol in absence of solar), Load percentage (0 t 150%), over load, short ckt, fault, battery low, over temp, PV reverse, Fuse trip,
	LCD Display parameters	°C	reverse.  PV Current, Battery voltage, Mains voltage, UPS ON/OFF, UPS Mode, Symbol of sun (Smily) if solar available, (non smily symbol in absence of solar), Load percentage (0 to 150%), over load, short ckt, fault, battery low, over temp, PV reverse, Fuse trip, (Customised LCD)
48 49	LCD Display parameters Indication LEDs	°C	reverse.  PV Current, Battery voltage, Mains voltage, UPS ON/OFF, UPS Mode, Symbol of sun (Smily) if solar available, (non smily symbol in absence of solar), Load percentage (0 to 150%), over load, short ckt, fault, battery low, over temp, PV reverse, Fuse trip, (Customised LCD)  Tact switch Status
48	LCD Display parameters  Indication LEDs  Operating Temperature range		reverse.  PV Current, Battery voltage, Mains voltage, UPS ON/OFF, UPS Mode, Symbol of sun (Smily) if solar available, (non smily symbol in absence of solar), Load percentage (0 to 150%), over load, short ckt, fault, battery low, over temp, PV reverse, Fuse trip, (Customised LCD)  Tact switch Status  0-50
48 49 51 52	LCD Display parameters  Indication LEDs Operating Temperature range Storage Temperature range Max RH Front panel details (Display, Selection switch etc)	°C	reverse.  PV Current, Battery voltage, Mains voltage, UPS ON/OFF, UPS Mode, Symbol of sun (Smily) if solar available, (non smily symbol in absence of solar), Load percentage (0 to 150%), over load, short ckt, fault, battery low, over temp, PV reverse, Fuse trip, (Customised LCD)  Tact switch Status  0-50  0+65  95  Display with tact switch
48 49 51 52 53	LCD Display parameters  Indication LEDs Operating Temperature range Storage Temperature range Max RH Front panel details (Display, Selection switch etc) Enclosure protection	°C %	reverse.  PV Current, Battery voltage, Mains voltage, UPS ON/OFF, UPS Mode, Symbol of sun (Smily) if solar available, (non smily symbol in absence of solar), Load percentage (0 to 150%), over load, short ckt, fault, battery low, over temp, PV reverse, Fuse trip, (Customised LCD)  Tact switch Status  0-50  0+65  95  Display with tact switch
48 49 51 52 53 54	LCD Display parameters  Indication LEDs  Operating Temperature range  Storage Temperature range  Max RH  Front panel details (Display, Selection switch etc)  Enclosure protection  Changeover time in UPS mode	°C %	reverse.  PV Current, Battery voltage, Mains voltage, UPS ON/OFF, UPS Mode, Symbol of sun (Smily) if solar available, (non smily symbol in absence of solar), Load percentage (0 to 150%), over load, short ckt, fault, battery low, over temp, PV reverse, Fuse trip, (Customised LCD)  Tact switch Status  0-50  0+65  95  Display with tact switch  IP20  <10
48 49 51 52 53 54 55	Indication LEDs Operating Temperature range Storage Temperature range Max RH Front panel details (Display, Selection switch etc) Enclosure protection Changeover time in UPS mode Changeover time in Normal mode (Inv mode)	°C %	reverse.  PV Current, Battery voltage, Mains voltage, UPS ON/OFF, UPS Mode, Symbol of sun (Smily) if solar available, (non smily symbol in absence of solar), Load percentage (0 to 150%), over load, short ckt, fault, battery low, over temp, PV reverse, Fuse trip, (Customised LCD)  Tact switch Status  0-50  0+65  95  Display with tact switch  IP20  <10  <40
48 49 51 52 53 54 55 56	Indication LEDs Operating Temperature range Storage Temperature range Max RH Front panel details (Display, Selection switch etc) Enclosure protection Changeover time in UPS mode Changeover time in Normal mode (Inv mode) Input Protection	°C %	reverse.  PV Current, Battery voltage, Mains voltage, UPS ON/OFF, UPS Mode, Symbol of sun (Smily) if solar available, (non smily symbol in absence of solar), Load percentage (0 to 150%), over load, short ckt, fault, battery low, over temp, PV reverse, Fuse trip, (Customised LCD)  Tact switch Status  0-50  0+65  95  Display with tact switch  IP20  <10  <40  Rated MCB
48 49 51 52 53 54 55 56 57	Indication LEDs Operating Temperature range Storage Temperature range Max RH Front panel details (Display, Selection switch etc) Enclosure protection Changeover time in UPS mode Changeover time in Normal mode (Inv mode) Input Protection Backup @ 400Watt Load	oC %	reverse.  PV Current, Battery voltage, Mains voltage, UPS ON/OFF, UPS Mode, Symbol of sun (Smily) if solar available, (non smily symbol in absence of solar), Load percentage (0 to 150%), over load, short ckt, fault, battery low, over temp, PV reverse, Fuse trip, (Customised LCD)  Tact switch Status  0-50  0+65  95  Display with tact switch  IP20  <10  <40  Rated MCB  4.0-7.0
48 49 51 52 53 54 55 56	Indication LEDs Operating Temperature range Storage Temperature range Max RH Front panel details (Display, Selection switch etc) Enclosure protection Changeover time in UPS mode Changeover time in Normal mode (Inv mode) Input Protection	°C %	reverse.  PV Current, Battery voltage, Mains voltage, UPS ON/OFF, UPS Mode, Symbol of st (Smily) if solar available, (non smily symbol in absence of solar), Load percentage (to 150%), over load, short ckt, fault, battery low, over temp, PV reverse, Fuse trip, (Customised LCD)  Tact switch Status  0-50  0+65  95  Display with tact switch  IP20  <10  <40  Rated MCB







10+ Years Life



Smart Display



With State of Charge Design



Multi Function



Support Fast Charging



Modern Wall Mount



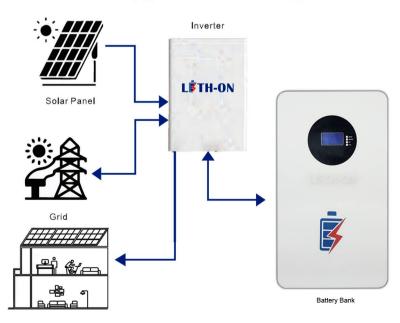
Eco Friendly



Support High Discharge Up to 100A

#### **PRODUCT FEATURES**

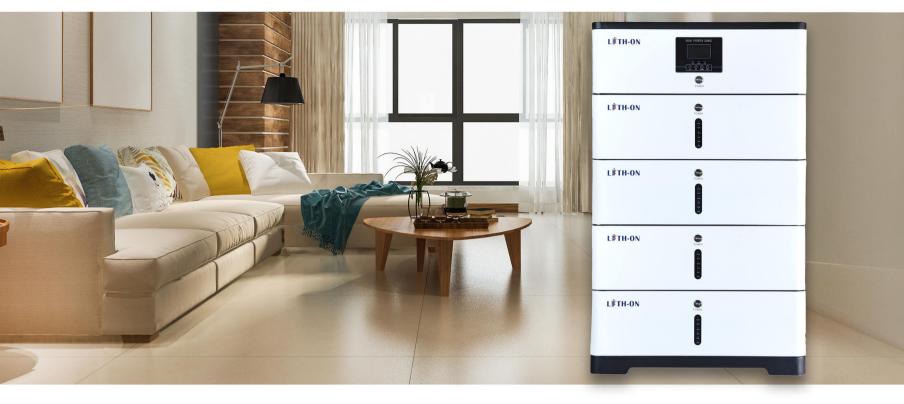
- Smart Battery (Can Be Parallel Up To 16 Modules)
- Bluetooth Enabled
- 10 Types Of Protection With Inbuilt Smart BMS Like Over / Under Charge / Discharge, Temperature
   Management Balancing ETC.
- Wall Mounted Modular Cabinet
- · Fast Charging / Discharging
- Smart Display For Monitoring Purpose
- Compatible With Most Of The Inverter In Market (LFP / LEAD ACID)



5 KWH - Energy Storage System - Wall Mount				
	Model	NEES 5- KWH		
	Nominal Voltage	48v/51.2V		
	Nominal Capacity	100Ah		
	Energy	4800Wh/5120Wh		
Electrical	Cycle Life	<u>&gt;4800</u> cycles @ <mark>80%</mark> DOD, 25°C		
Characteristics	Self-Discharge (28 days)	≤ <mark>3%, @</mark> 25°C		
	Efficiency of charge	≥98%		
	Efficiency of Discharge	≥98% @ 0.2C		
	Efficiency of Discharge	≥96% @ 0.5C		
	Charge Voltage (max)	54.7V±0.1V/58.4V±0.1V		
Charge	Charging Method	Charge current of 0.2C up to 54.7V/58.4V, then 0.02C after reaching 54.7V/58.4V (CC/CV)		
	Max. Charge Current	100 (1C)		
	Charge Cut-off Voltage	56.2V±0.2V/60V±0.2V		
Discharge	Max. Continuous Discharge Current	100A (1C)		
Discharge	Discharge Cut-off Voltage	42V±0.2V/44.8V±0.2V		
	Charge Temperature Range	0°C to 45°C		
	Discharge Temperature Range	-20°C to +60°C		
Environmental	Optimum Operation Temperature	20°C to 25°C		
Environmental	Storage Temperature	-20°C to +25°C		
	Humidity	5% <u>&lt;</u> RH <u>&lt;</u> 85%		
	Ingress protection rating	IP20		
	Module	Wall Mount		
	Dimensions (MM)	405(L) X 182(W) X 704(H)		
Mechanical	Weight (Kg)	Approx. 45KG		
	Protections	Over & Under voltage, short circuit, over Temperature, Over Charge Current, Over Disharge Current		
Others	Communication Protocol	RS 485, CAN 2.0		
Others	SOC	LCD Display		

- High quality LFP cells
- High rate charge/discharge current @ 1C/1C
  - Long design life up to 15+years @25°C
- High efficiency between charge and discharge
  - Multiple protection method using own BMS
    - RS 485 Modbus / CAN Bus (Optional)







10+ Years Life



Smart Display



With State of Charge Design



Multi Function



Support High Charge up to 1C



Modern Wall Mount



Eco Friendly



Support High Discharge Up to 100A

#### **PRODUCT FEATURES**

Smart Battery (Can Be Parallel Up To 16 Modules)

Bluetooth Enabled.

10 Types Of Protection With Inbuilt Smart BMS Like -

Over / Under Charge / Discharge, Temperature Management,

Balancing ETC.

Wall Mounted Modular Cabinet.

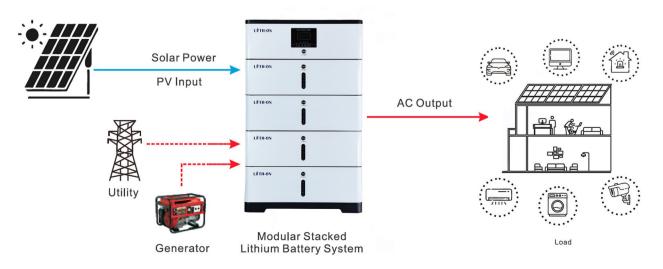
Fast Charging / Discharging.

Smart Display For Monitoring Purpose

Compatible With Most Of The Inverter In Market

(LFP / LEAD ACID)

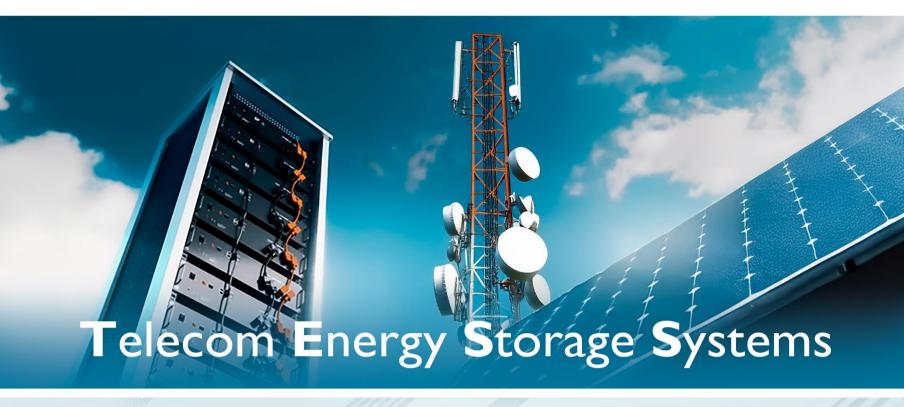
s No	ENERGY ST	NESS-5LV1	NESS-5LV2	NESS-5LV3	NESS-5LV4				
1	Number of Modules	1	2	3	4				
2	Energy Capacity	100Ah	100Ah		·				
3	Energy Capacity	4.8kWh	9.6kWh	100Ah 14.4kWh	100Ah 19.2kWh				
3	Size(LxWxH)	574x395x134mm	574x395x302mm	574x395x470mm	574x395x638mm				
4	Weight	49Kg	88Kg	127Kg	166Kg				
5	Standard Charge/Discharge Current	75A	75A	100A	100kg				
6	Battery Type	Lithium Iron Phosphate(LFP)							
7	Nominal Voltage	48V	96V	144V	192V				
8	Operating Voltage Range			4.7V	1921				
9	Protection Grade		IP	 65					
10	Installation		Floor ins	stallation					
11	Operation Temperature		-10^	-60C					
12	Cycle Life	6000 Cycles							
13	Communication Port	CAN							
14	Warranty: 5 Years /10 Years	Yes/optional							
15	BMS Monitoring Parameters	SOC,System voltage,current, cell voltage, cell temperature, PCBA temperature measurement							
S. No.	MODEL	NESS-5LV5	NESS-5LV6	NESS-5LV7	NESS-5LV8				
1	Number of Modules	5	6	7	8				
2	Energy Capacity	100Ah	100Ah	100Ah	100Ah				
3	Energy Capacity	24kWh	28.8kWh	33.6kWh	38.4kWh				
	Size(LxWxH)	574x395x806mm	574x395x974mm	574x395x1142mm	574x395x1310mm				
4	Weight	205Kg	244Kg	283Kg	322Kg				
5	Standard Charge/Discharge Current	100A	100A	100A	100A				
	Battery Type		Lithium Iron P	hosphate (LFP)					
6		240V 288V 336V 384V							
	Nominal Voltage	240V	288V	3301	40-54.7V				
6		240V							
6 7	Nominal Voltage	240V	40-5						
6 7 8	Nominal Voltage Operating Voltage Range	240V	40-5 IP	4.7V					
6 7 8 9	Nominal Voltage Operating Voltage Range Protection Grade	240V	40-5 IP Floor ins	4.7V 65					
6 7 8 9 10	Nominal Voltage Operating Voltage Range Protection Grade Installation	240V	40-5 IP Floor ins -10°	4.7V 65 stallation					
6 7 8 9 10 11	Nominal Voltage Operating Voltage Range Protection Grade Installation Operation Temperature	240V	40-5 IP Floor ins -10 <sup>o</sup> 6000	4.7V 65 stallation 60C					
6 7 8 9 10 11	Nominal Voltage Operating Voltage Range Protection Grade Installation Operation Temperature Cycle Life	240V	40-5 IP Floor ins -10° 6000 C/	4.7V 65 stallation °60C Cycles					











#### Advantages of the 480V Lithium-Ion Telecom Battery System

LITH-ON

 High Energy Density: Lithium-ion cells provide a high energy density, allowing the battery system to store more energy in a compact form.
 This is particularly beneficial for telecom sites with limited space.

 Long Cycle Life: With over 3,000 cycles at 80% Depth of Discharge (DoD), the battery system offers a long service life, reducing the need for frequent replacements and lowering maintenance costs.

• Efficient Performance: The system boasts a high round-trip efficiency of over 95%, ensuring minimal energy loss during charge and discharge cycles. This efficiency translates to better utilization of stored energy and reduced operational costs.

• Safety Features: The lithium-ion cells used in the system have integrated safety features such as overvoltage, undervoltage, overcurrent, and short circuit protection. Additionally, the system includes thermal management with integrated sensors and auto-shutdown capabilities, enhancing operational safety.

- Environmental Friendliness: Lithium-ion technology is more environmental friendly compared to traditional lead-acid batteries. It has a lower environmental impact due to its reduced weight, smaller volume, and recyclability, making it a sustainable choice for energy storage.
- Wide Operating Temperature Range: The battery system is capable of operating in a broad temperature range, from -20°C to 60°C for discharging and 0°C to 45°C for charging, making it suitable for diverse climates and environments.
- Scalability and Flexibility: This telecom battery system is modular, allowing easy scaling of capacity according to the specific needs of the installation. It can be adapted for both small-scale and large-scale telecom applications.





Containerized Battery Energy Storage Systems (BESS) provide a powerful and flexible solution for large-scale energy storage needs, with capacities typically ranging from 500 kW to several megawatts. These systems are housed in durable, weather-resistant shipping containers, making them easy to transport



install, and deploy in various environments, including remote or challenging locations. Key Features: Scalability: Multiple containers can be stacked or linked together to expand storage capacity, enabling seamless scaling from hundreds of kilowatts to several megawatts. This makes containerized BESS suitable for a wide range of applications, from commercial and industrial facilities to utility-scale projects. Versatility: These systems support diverse energy applications, including grid stabilization, peak shaving, load shifting, and renewable energy integration. They are also ideal for providing backup power during outages, ensuring continuous operations in critical infrastructure. Efficiency and Reliability: Container BESS are designed for high energy density and efficiency, utilizing advanced lithium-ion or other battery chemistries to deliver consistent and reliable power. The containers are equipped with sophisticated thermal management and safety systems, ensuring optimal performance and longevity even in extreme conditions. Ease of Installation: The containerized design allows for rapid deployment and integration into existing energy systems. They can be installed on-site with minimal civil work, reducing both installation time and costs. Remote Monitoring and Control: Most containerized BESS come with integrated monitoring and control systems, allowing operators to manage and optimize energy storage operations remotely. This feature enhances operational efficiency and simplifies maintenance. Overall, containerized BESS of er a highly adaptable and efficient energy storage solution, capable of meeting the demands of modern energy systems while supporting the transition to more sustainable energy sources.





#### **BENEFITS & FEATURES**

LiFePO4 High Service Life: >3500

Cycles Ultra safe Lithium Iron Phosphate chemistry (no thermal run-away, no fire or explosion risks)

Embedded BMS (Battery Management System) improve and secure the battery

No Lead, no rare earths, no acid, no degassing.

Calendar life > 10 years

Excellent temperature robustness (-20 °C up to +60 °C)

RANGE: 51.2V 86Ah to 200Ah

Constant power during discharge (very low internal resistance)

Very low Peukrt's losses (energy efficiency >98%)

Very low self-discharge (<2.5% per month)

About 50% lighter and 40% smaller than equivalent Lead-AGM battery with same usable energy

Certification: IEC, ISO, ROHS, UN38.3, BIS

Neoclo Energy Private Limited is proud to introduce our advanced Lithium Iron Phosphate (LiFePO4) battery solutions specifically designed for E-Rickshaws. Our Batteries are engineered to offer superior performance, longer life and enhanced safety, making them the ideal choice for electric rickshaw applications.



#### **DIESEL GENERATORS**

# ENERGY STORAGE SYSTEM

**CHOOSE THE BEST** 

**BETTER TOMORROW** 

#### Capital Investment

Parameters	Lithium Battery ESS	DG Sets
Initial Cost	Higher upfront cost due to battery technology and inverter systems	Lower initial cost.
Installation Cost	Lower (modular systems, simple installation)	Higher (fuel lines, venting, etc.)

#### **Operational Costs**

Parameters	Lithium Battery ESS	DG Sets
Fuel Cost	None (powered by solar or grid electricity)	High (diesel consumption)
Maintenance Cost	Minimal (no moving parts, periodic checks for BMS)	High (engine servicing, filters, etc)
Lifespan	10–15 years (5000+ cycles)	5–10 years depending on usage

#### Efficiency

Parameters	Lithium Battery ESS	DG Sets
Efficiency (%)	90–95% (charge-discharge cycles)	30–40% (diesel energy converted to power)
Energy Utilization	Higher, with energy savings when paired with renewables	Lower due to higher losses



#### **LEAD ACID BATTERY**

#### **LITHIUM BATTERY**

**CHOOSE THE BEST** 

#### BETTER TOMORROW

Particular	Lead Acid	Lithium -lon
Size and Weight	Lead Acid battery weight 5 times more than lithium battery . If led Acid battery 30kg/kwh then Lithium battery 6 kg /kwh	Lithium-ion batteries have a much higher energy density, making them half the size and a quarter the weight of equivalent Lead Acid batteries.
Voltage Fluctuation	Lead Acid batteries exhibit voltage fluctuations that are dependent on the output load	Lithium-ion batteries provide stable voltage output, ensuring reliable and consistent power supply for optimal system performance
Cycle Life	Lead Acid batteries have a cycle life of 500 to 1000 cycles under similar conditions. Warranty side maintain by the manufacturer up to 2-3 yrs	Lithium-ion batteries offer 4,500–6,000 cycles with 5– 10 years of manufacturer warranty
Depth of Discharge (D.O.D.)	Lead Acid batteries, however, have a limited depth of discharge of around 50-60%	Lithium-ion batteries can discharge up to 99% of their capacity, maximizing usage before recharging.
Charging Time	Whereas Lead Acid batteries typically require 8 to 12 hours for a complete charge	Lithium-ion batteries charge fully in 5–6 hours, offering fast turnaround for applications like EVs and energy storage
Temperature Stability	Lead Acid batteries have a more limited operating temperature range of -20 to +55 degrees Celsius	Lithium-ion batteries offer excellent thermal stability, operating efficiently from -20°C to +75°C



#### **OUR INSTALLATIONS**







**LUCKNOW** 



**FUEL STATION** 



**GHAZIABAD** 



**RSPL - KANPUR** 



NTPC - SHRAVASTI



#### **OUR INSTALLATIONS**



**KASHMIR** 



**NTPC** 



**INDIAN ARMY** 



**UTTAR PRADESH** 



**SRINAGAR** 



**PATNA** 



#### **OUR CERTIFICATES**





















Scan the QR for more Information

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