

# Model : 48NEX100

Nexus NEX Series is a complete range of 48V Lifepo4 (Lithium Iron Phosphate) Battery Products, for a wide variety of applications, such as telecom base station, UPS, Renewable energy system, etc., with advanced life, Standard size, light weight and strong environmental adaptability.

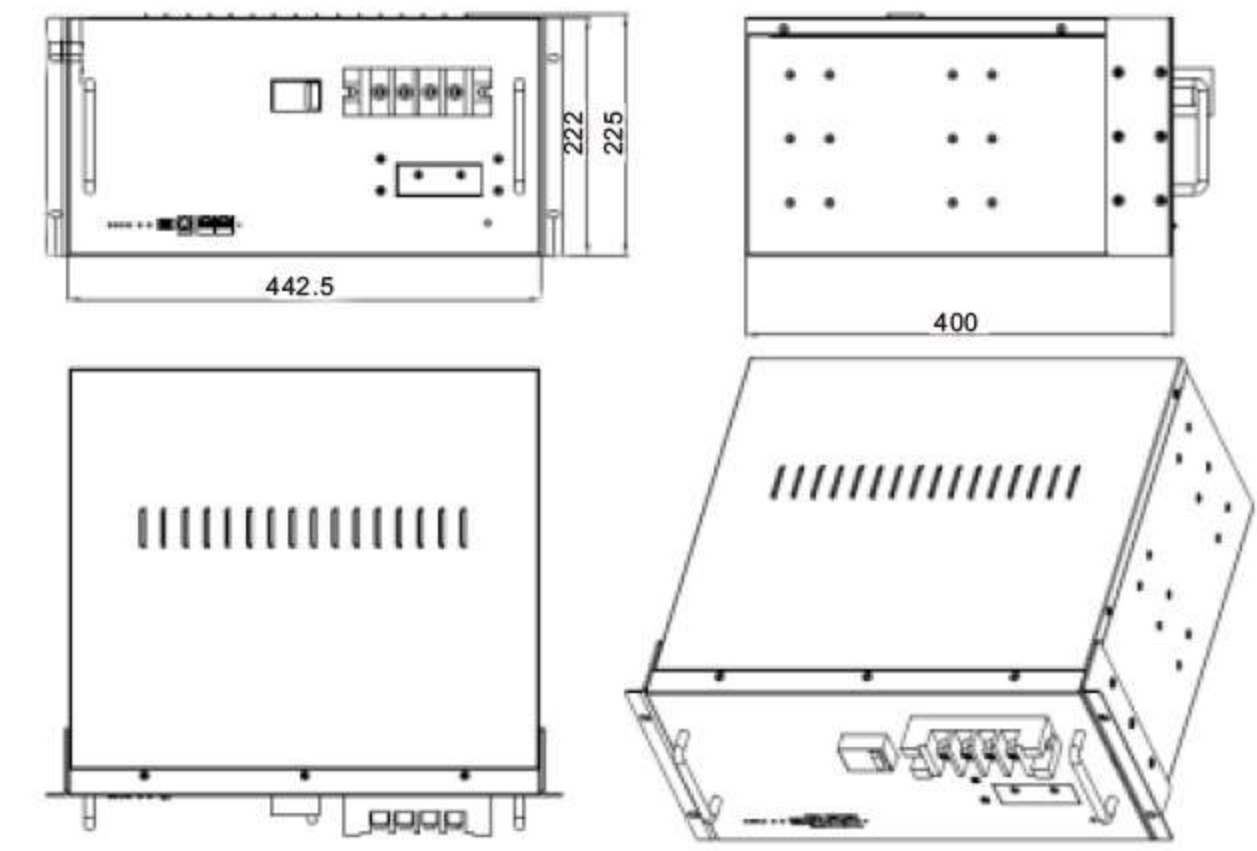
## Battery Management System (BMS)

For Standard Nexus Lithium Battery Module, BMS is applied to monitor voltage, Current, temperature of cells and module, take protections against over-charge, over-discharge, over-current, over-temperature, under-temperature and short circuit, etc., and provide cell balancing and current limitation during charging process to ensure a reliable safety and excellent performance.

Meantime, Nexus Supply Customized upper computer software for BMS communication via RS232 or RS485 to set parameters or read monitoring data.



## Dimensions-mm



Specifications		
Battery Specification		
Rated Voltage		48V
Rated Capacity		100Ah(C5, 0.2C to 40.5V @ 25'C
Discharge Current(Max.)		100A
Discharge End Voltage		40.5V
Charge Current(Recomm.)		20A
ChargeCurren(Max.)		100A
Charge Voltage		54 + 0.5V
Dimensions	Width	442.5mm(17.42inches)
	Depth	400.0mm(15.75inches)
	Height	225.0mm(8.86 inches,5U)
Typical Weight		45.0kg
Layout of Front Panel		
Status Indicators		SOC/ALM/RUN
Communications Ports		RS232/RS485
Communications in Parallel		15 Modules in Parallel
Reset Key		Available
Terminal Size		M8(Screw Size)
LCD Screen		Optional
Breaker		Standard
Maintenance Interface		Standard
Operation Environments		
Temperature Range	Discharge	-20 to 60°C
	Charge	0 to +60°C
	Storage	0 to+ 40°C
Temperature Recommendation	Discharge	+15 to +35°C
	Charge	+15 to +35°C
	Storage	+15 to +30°C
Humidity		5% to 95%

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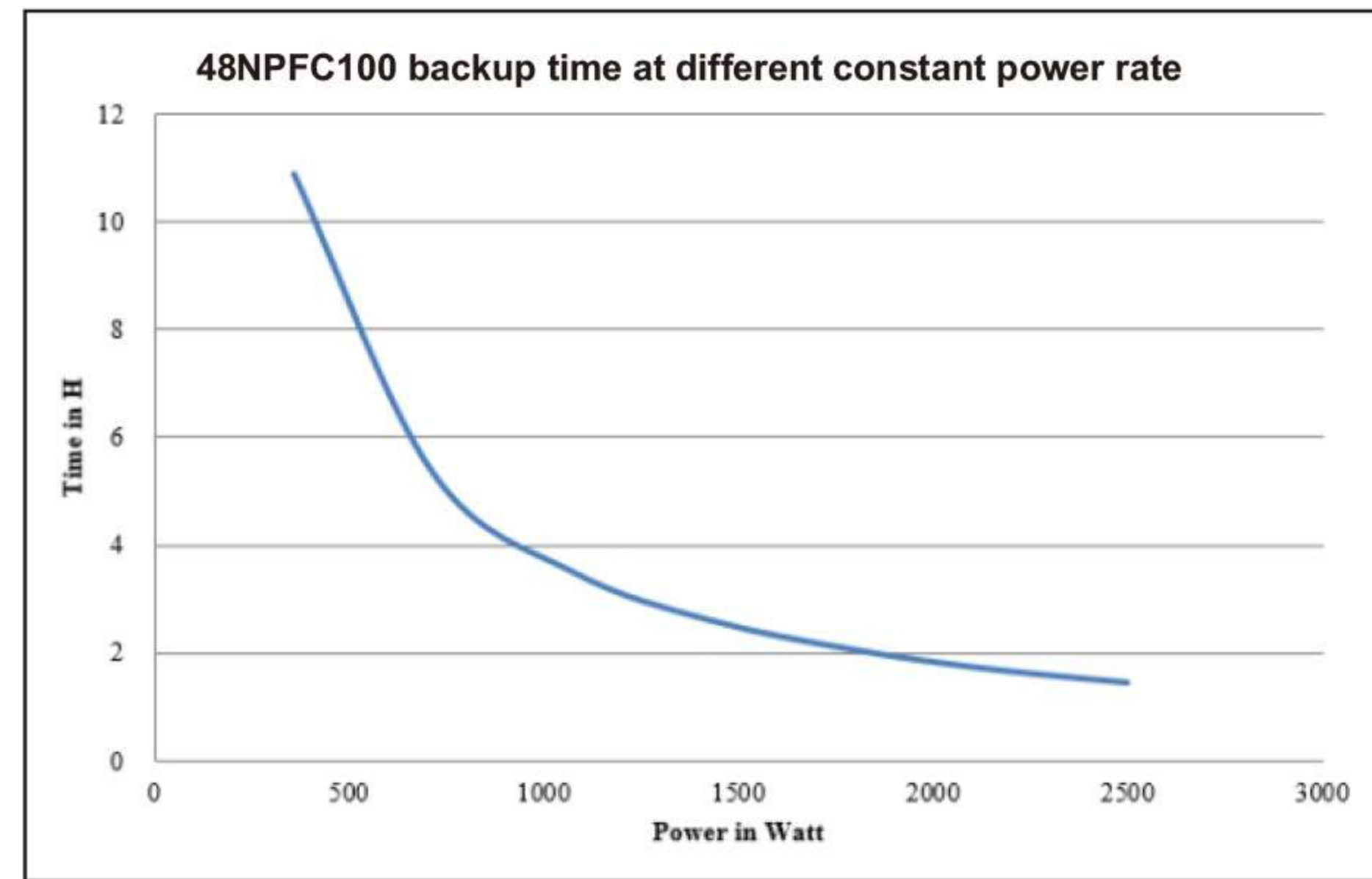
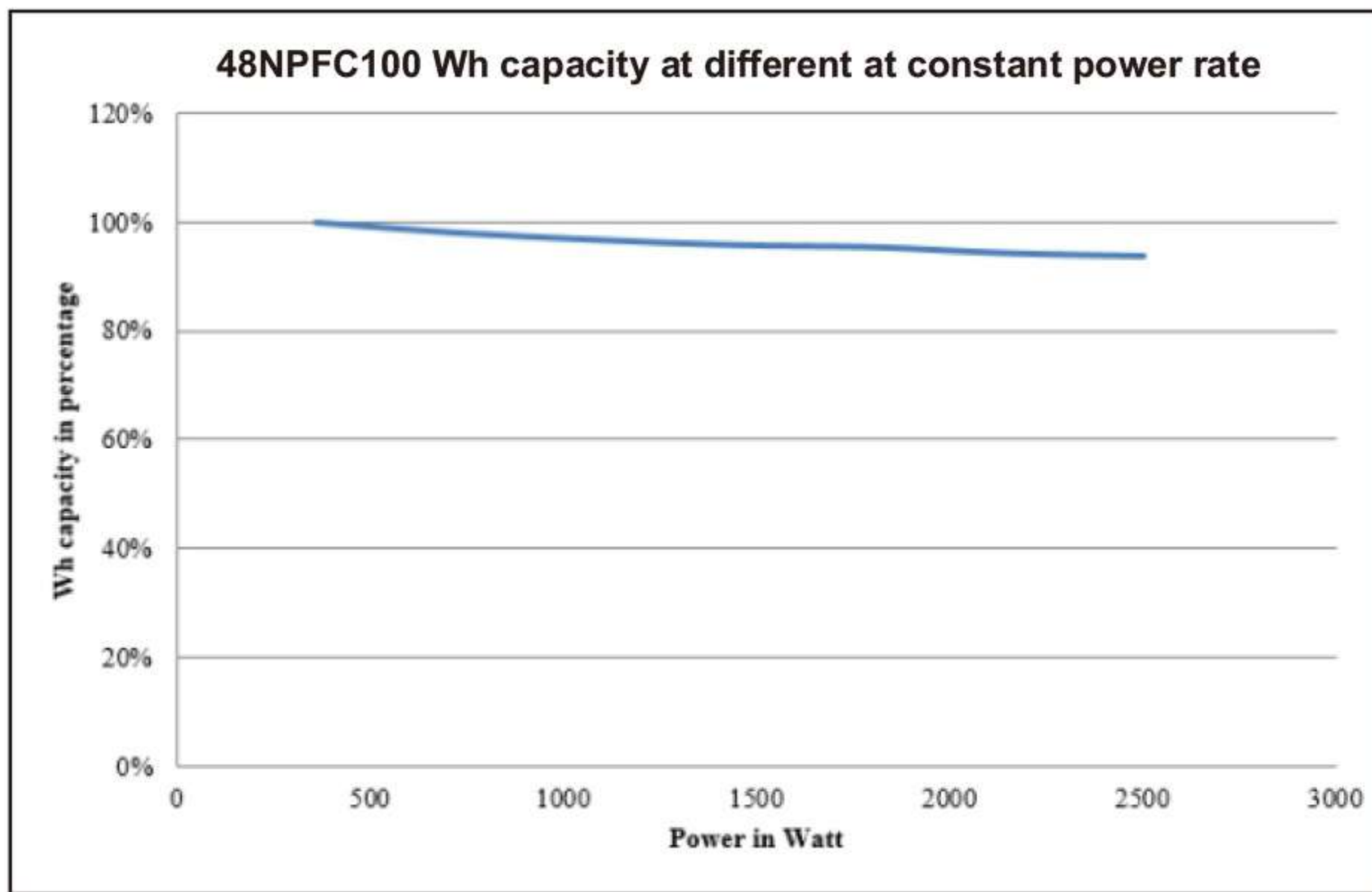
## Constant Current Discharge Characteristics (25 °C, 77 °F)

End Voltage	Currant(A) / Time	0.1C	0.15C	0.2C	0.25C	0.3C	0.4C	0.5C	0.6C	0.8C
<b>Hours</b>										
46.5		9.56	6.35	4.75	3.78	3.12	2.29	1.79	1.45	1.02
45.01		9.76	6.49	4.85	3.87	3.21	2.39	1.89	1.57	1.15
43.5		9.89	6.58	4.92	3.92	3.25	2.42	1.93	1.6	1.19
42.01		9.98	6.64	4.96	3.96	3.29	2.45	1.94	1.61	1.21
40.5		10.04	6.68	5	3.99	3.31	2.46	1.96	1.63	1.22
39.01		10.08	6.7	5.02	4.01	3.33	2.48	1.97	1.64	1.22

## Discharge Data With Constant Power (25 °C , 77 °F)

End Voltage	Power/ Time	450W	900W	1350W	1800W	2250W	2700W	3150W
<b>Hours</b>								
46.5		10.35	5.11	3.36	2.46	1.92	1.53	1.27
45		10.55	5.22	3.45	2.55	2.02	1.66	1.4
43.5		10.66	5.28	3.49	2.58	2.06	1.69	1.43
42		10.75	5.32	3.52	2.61	2.07	1.7	1.45
40.5		10.79	5.35	3.54	2.62	2.09	1.72	1.46
39		10.82	5.37	3.55	2.63	2.09	1.73	1.47

## Performance Curves



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भारत की सबसे ज्यादा

**Backup**  
देने वाली बैटरी