Westell[®] | NPFC Battery Series

FGP-NPFC50-48

General Information

Westell's NPFC Battery series by Narada offers 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. A drop-in replacement to legacy lead acid battery strings, the NPFC batteries offer ease of installation, monitoring and maintenance free operation. Offered in 10AH, 20AH, 50AH, and 100AH models.*

NPFC batteries have a much smaller footprint and much less weight (40-60% less depending on batteries) than sealed lead acid, and are compatible with all standard telecom rectifiers.

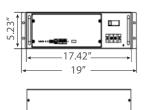
The Battery Management System (BMS) is used to monitor voltage, current, temperature of cells and module, provide protection against over-charge, over-discharge, over-current, over-temperature, undertemperature and short circuit, etc., and provide cell balancing and current limitation during charging process to ensure reliable, safe and excellent performance.

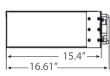
Batteries can be interconnected through the RS485 ports. Software and cable for BMS communication via RS232 to set parameters or read monitoring data is available.

Ordering Information

Part Number	Description
FGP-NPFC10-48	10AH LiFePO ₄ 48V NPFC Battery
FGP-NPFC20-48	20AH LiFePO ₄ 48V NPFC Battery
FGP-NPFC50-48	50AH LiFePO ₄ 48V NPFC Battery
FGP-NPFC100-48	100AH LiFePO ₄ 48V NPFC Battery
FGP-NPFC-RS232	RS232 NPFC Battery Comm Kit

Product Dimensions (in)











FGP-NPFC50-48

Product Specifications

Battery Specifications							
Rated Voltage		48V					
Rated Capacity		50Ah (C, ₅ 0.2C to 40.5V at 25°C)					
Discharge Current (Max.)		50A					
Discharge End Voltage		40.5V					
Charge Current (Recomm	.)	10A					
Charge Current (Max.)		50A					
Charge Voltage		54±0.5V					
Dimensions (in)	Width Depth Height	17.42″ 15.4″ 5.23" (3 RU)					
Typical Weight		65 lbs					
Layout of Front Panel							
Status Indicators		SOC / ALM / RUN					
Communication Ports		RS232 / RS485*2					
Communication in Paralle	•	8 modules in maximum					
Reset Key		Available					
Terminal Size		M6 (Screw size)					
LCD Screen		Not Available					
Breaker		Not Available					
Dry Contact		NC					
Operational Environme	nts						
Temperature Range		Discharge -20 to +60 °C Charge 0 to +60 °C Storage 0 to +40 °C					
Temperature Recommend	lation	Discharge +15 to +35 °C Charge +15 to +35 °C Storage +15 to +35 °C					
Humidity		5% to 95%					



Westell[®] | NPFC Battery Series



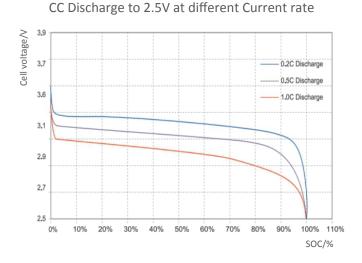
Constant Current Discharge Characteristics (25°C, 77°F)

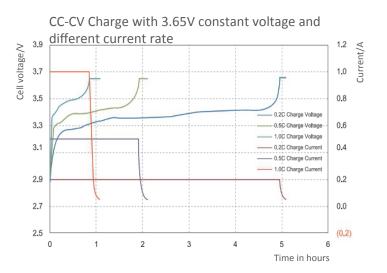
	Current(A)	0.1C	0.15C	0.2C	0.25C	0.3C	0.4C	0.5C	0.6C	0.8C	1C
End voltage	Time					Hours					Min
46.5V		9.56	6.35	4.75	3.78	3.12	2.29	1.79	1.45	1.02	42.2
45.0V		9.76	6.49	4.85	3.87	3.21	2.39	1.89	1.57	1.15	53.2
43.5V		9.89	6.58	4.92	3.92	3.25	2.42	1.93	1.60	1.19	55.5
42.0V		9.98	6.64	4.96	3.96	3.29	2.45	1.94	1.61	1.21	56.4
40.5V		10.04	6.68	5.00	3.99	3.31	2.46	1.96	1.63	1.22	56.9

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

	Power	225W	450W	675W	900W	1125W	1350W	1575W	1800W
End voltage	Time					Hours			
46.5V		10.35	5.11	3.36	2.46	1.92	1.53	1.27	1.06
45.0V		10.55	5.22	3.45	2.55	2.02	1.66	1.40	1.21
43.5V		10.66	5.28	3.49	2.58	2.06	1.69	1.43	1.24
42.0V		10.75	5.32	3.52	2.61	2.07	1.70	1.45	1.25
40.5V		10.79	5.35	3.54	2.62	2.09	1.72	1.46	1.27

Performance Curves







WESTELL.COM

Copyright © 2020 by Westell, Inc. All Rights Reserved. Information is correct at time of printing and is subject to change without notice. Westell, Inc. is an Equal Opportunity/Affirmative Action employer.