



Zhejiang Narada Power Source Co., Ltd.

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Supported Table and Graph for Narada 48NPFC100

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Table 1 Cycle life at different DOD 100%, 80%, 60%, 40%
at different temperature: 25°C, 30°C, 35°C, 40°C, 45°C, discharge at 0.2Crt

Temp (°C)	Depth of Discharge (%)			
	100%	80%	60%	40%
25	2500	3550	4200	6300
30	2100	2900	3800	5500
35	1800	2600	3500	4800
40	1500	2200	3000	4200
45	1100	2050	2000	3000

Table 2.1 Module discharge voltage at DOD 20%, 40%, 60%, 80%, 90%, 95%
with different discharge rate: 0.1Crt, 0.2Crt, 0.5Crt, 0.8Crt, 1Crt

DOD\Discharge rate	0.1C	0.2C	0.5C	0.8C	1C
20%	49.55V	49.19V	48.54V	48.17V	47.76V
40%	49.04V	48.77V	48.27V	47.93V	47.58V
60%	48.87V	48.51V	47.91V	47.57V	47.21V
80%	48.24V	47.91V	47.30V	46.92V	46.47V
90%	47.54V	47.22V	46.64V	46.28V	45.18V
95%	47.03V	46.65V	45.92V	45.60V	43.43V

Table 2.2 Cell discharge voltage at DOD 20%, 40%, 60%, 80%, 90%, 95%
with different discharge rate: 0.1Crt, 0.2Crt, 0.5Crt, 0.8Crt, 1Crt

DOD\Discharge rate	0.1C	0.2C	0.5C	0.8C	1C
20%	3.303V	3.279V	3.236V	3.211V	3.184V
40%	3.269V	3.251V	3.218V	3.195V	3.172V
60%	3.258V	3.234V	3.194V	3.171V	3.147V
80%	3.216V	3.194V	3.153V	3.128V	3.098V
90%	3.169V	3.148V	3.109V	3.085V	3.012V
95%	3.135V	3.110V	3.061V	3.040V	2.895V

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Table 3 Total energy (Wh) @25°C that the battery can discharge in whole life with different DODs

DOD (%)	Cycle life	Energy KWh/0.2C
100%	2500	11040
80%	3550	13056
60%	4200	12096
40%	6300	12096

Table 4 Capacity by discharge @ 25 °C, 100% DoD deep discharge with discharge lines 0.2C, 0.5C, 0.8C

Model No.	Temperature	Discharge rate	End voltage	Capacity
48NPFC100	25DegC	0.2C	43.2V	≥100Ah
		0.5C		≥98Ah
		0.8C		≥96Ah
	45DegC	0.2C	≥100Ah	

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