



Battery box Sunica plus NiCD 24V 100Ah C120

Protection mode:

Type of protection: II 2G Ex e IIC T6 Gb
 Class of temperature: T6
 Protection degree: IP43
 Ambient Temp : -20/+50°C
 Zones : 1-2



Description:

Ex e Battery including 17 x SAFT SUN+100 NiCd cells (approx. external dimensions 490x450xH600mm. The battery box is manufactured in stainless steel AISI 316L with hinged lid. Position and size of cable entries to be discussed at design stage.



Sunica.plus specifications data :

Certified IEC 62259 – Secondary cells and batteries containing alkaline or other non-acid electrolytes – Nickel-cadmium prismatic secondary single cells with partial gas recombination.

Certified IEC 60623 – Secondary cells and batteries containing alkaline or other non-acid electrolytes – Vented nickel-cadmium prismatic rechargeable single cells.

Complies with IEC 61427-1 – Secondary cells and batteries for renewable energy storage. General requirements and methods of test – Part 1: Photovoltaic off-grid applications.

Recommended charging voltage :

Batteries system	Numbers of elements	Depth of discharge daily (% of C120)		
		5 to 10%	10 to 15%	15 to 25%
12V	9	13,5V	13,95V	14,4V
24V	18	27V	27,9V	28,8V
48v	36	54V	55,8V	57,6V

Physical properties :

Element	Capacity C120 120h 1,0V Ah	Capacity C5 5h 1,0V Ah	Height (mm)
SUN+100	100	95	405



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Performance of full charged elements with a constant current regarding the CEI 62259.
Available amps to + 20 °C ± 5 °C.

Final voltage : 1,14V / element										
Elements	Capacity C120, 120h 1,0V Ah	2 days 48h	3 days 72h	4 days 96h	5 days 120h	6 days 144h	7 days 168h	8 days 192h	9 days 216h	10 days 240h
SUN+100	100	2,03	1,38	1,04	0,84	0,71	0,61	0,54	0,48	0,43

Final voltage : 1,16V / element										
Elements	Capacity C120, 120h 1,0V Ah	2 days 48h	3 days 72h	4 days 96h	5 days 120h	6 days 144h	7 days 168h	8 days 192h	9 days 216h	10 days 240h
SUN+100	100	2,00	1,37	1,03	0,84	0,70	0,61	0,54	0,48	0,43

Final voltage : 1,18V / element										
Elements	Capacity C120, 120h 1,0V Ah	2 days 48h	3 days 72h	4 days 96h	5 days 120h	6 days 144h	7 days 168h	8 days 192h	9 days 216h	10 days 240h
SUN+100	100	1,92	1,33	1,02	0,83	0,70	0,60	0,53	0,47	0,43

Final voltage : 1,20V / element										
Elements	Capacity C120, 120h 1,0V Ah	2 days 48h	3 days 72h	4 days 96h	5 days 120h	6 days 144h	7 days 168h	8 days 192h	9 days 216h	10 days 240h
SUN+100	100	1,76	1,24	0,94	0,78	0,67	0,58	0,51	0,46	0,41

