

PG 12-215

PANZERPLATTE TECHNOLOGY

Offers the German Panzerplatte gel, with special separators and fluid electrolyte. This top of the range technology ensures a deep discharge use and a long cycle life.



PANZERPLATTE
GEL TECHNOLOGY

by **SD**DirectPro

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HIGH PERFORMANCE

- 3500 cycles at 20% discharge
- 215Ah capacity for 20 hours
- Deep discharge rate guaranteed by DIN 43539-T5 standard



BACK-UP AND OFF-GRID USES

- Free maintenance thanks to regulation valves



HIGH QUALITY

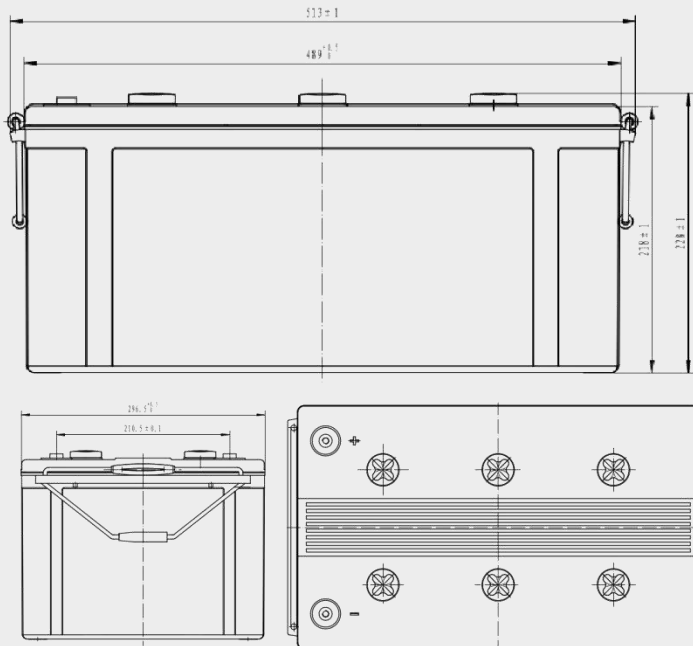
- 12 year expected life
- Compliant with IEC 60896-21/22



The panzerplatte gel technology
for a deep cycle life



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Product characteristics at 25°C

Dimensions	513 x 296.5 x 228 mm
Weight	82.8 kg
Expected life	12 years*
Internal resistance	3.20 mΩ
Self discharge rate	≤ 2% per month
Max charge current	40A
Max discharge current	1702A / 3 sec

Rated capacity at 25°C and 1.8V per cell

C20	C10	C5
215 Ah	200 Ah	170Ah

C20, C10, C5 = capacity at 20, 10, 5h discharge

Charge Voltage at 25°C

Cycle use	14 V
*Standby use	13.32 V

Constant current discharge at 25°C (A)

End voltage (V/cell)	5 min	10 min	15 min	20 min	30 min	45 min	1h	1.5h	2h
1.60	559	407	317	266	194	152	115.6	89.8	68.8
1.65	530	393	311	262	149	149	113.4	88.6	68.8
1.70	499	372	305	256	145	145	113.4	87.2	68.8
1.75	462	346	295	246	141	141	111.4	86.0	68.8
1.80	395	315	276	229	136	136	110.0	83.6	68.8

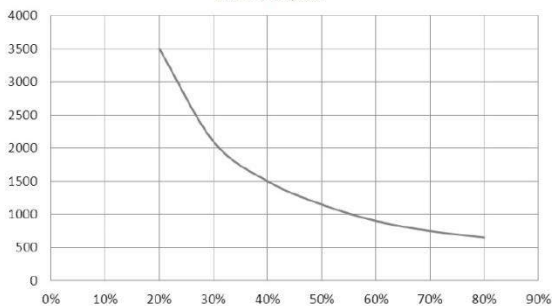
End voltage (V/cell)	3h	5h	10h	20h	24h	48h	100h	120h	240h
1.60	52.4	35	20	10.8	9.24	4.86	2.5	2.18	1.16
1.65	52.4	35	20	10.8	9.24	4.86	2.5	2.18	1.16
1.70	52.4	35	20	10.8	9.24	4.86	2.5	2.18	1.16
1.75	52.4	35	20	10.8	9.24	4.86	2.5	2.18	1.16
1.80	50.0	34	20	10.4	8.80	4.86	2.5	2.18	1.16

Constant power discharge at 25°C (W/cell)

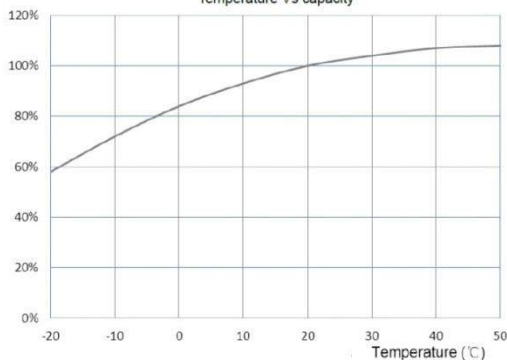
End voltage (V/cell)	5 min	10 min	15 min	20 min	30 min	45 min	1h	1.5h	2h
1.60	986	739	580	487	365	274	213.6	166.0	130.0
1.65	917	711	567	481	361	272	209.8	164.8	130.0
1.70	839	672	548	471	356	268	209.8	163.2	130.0
1.75	773	623	531	453	347	262	206.0	161.6	130.0
1.80	719	568	507	425	331	252	203.2	157.8	126.8

End voltage (V/cell)	3h	5h	10h	20h	24h	48h	100h	120h	240h
1.60	94.2	64.4	38.0	20.40	18.3	9.72	5	4.4	2.34
1.65	94.2	64.4	37.6	20.40	18.3	9.72	5	4.4	2.34
1.70	94.2	64.4	37.6	20.40	18.3	9.72	5	4.4	2.34
1.75	94.2	64.4	37.2	20.40	18.3	9.72	5	4.4	2.34
1.80	91.8	61.0	36.2	19.84	17.6	9.72	5	4.4	2.34

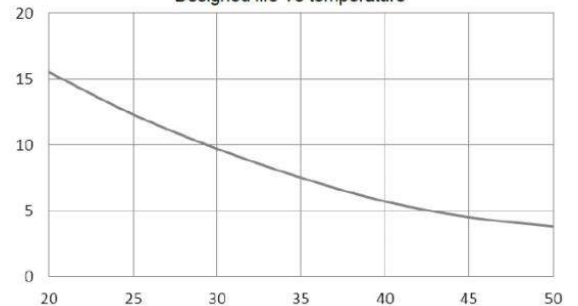
DOD VS cycles



Temperature Vs capacity



Designed life Vs temperature



Charge performance

