

# PG 12-110

## 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



### HIGH PERFORMANCE

- 3500 cycles at 20% discharge
- 110Ah 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

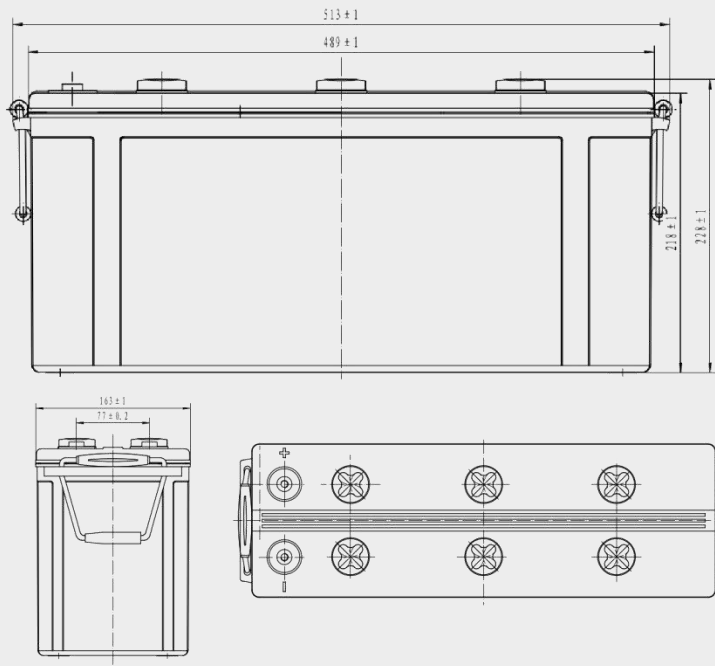
- 12 year expected life
- Compliant with IEC 60896-21/22



The panzerplatte gel technology  
for a deep cycle life



# PG 12-110



## Product characteristics at 25°C

Dimensions	513 x 163 x 228 mm
Weight	44 kg
Expected life	12 years*
Internal resistance	3.91 mΩ
Self discharge rate	≤ 2% per month
Max charge current	20A
Max discharge current	1104A / 3 sec

## Rated capacity at 25°C and 1.8V per cell

C20	C10	C5
110 Ah	100 Ah	85 Ah

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	279	204	159	133	97	76	57.8	44.9	34.4
1.65	265	196	156	131	96	75	56.7	44.3	34.4
1.70	250	186	152	128	95	72	56.7	43.6	34.4
1.75	231	173	147	123	92	70	55.7	43.0	34.4
1.80	197	158	138	115	87	68	55.0	41.8	34.4

End voltage (V/cell)	3h	5h	10h	20h	24h	48h	100h	120h	240h
1.60	26.2	17.5	10.0	5.4	4.62	2.43	1.25	1.09	0.58
1.65	26.2	17.5	10.0	5.4	4.62	2.43	1.25	1.09	0.58
1.70	26.2	17.5	10.0	5.4	4.62	2.43	1.25	1.09	0.58
1.75	26.2	17.5	10.0	5.4	4.62	2.43	1.25	1.09	0.58
1.80	25.0	17.0	10.0	5.2	4.40	2.43	1.25	1.09	0.58

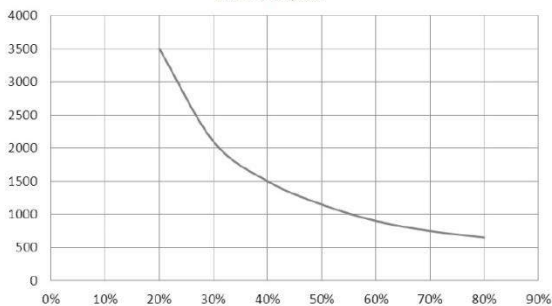
## Constant power discharge at 25°C (W/cell)

End voltage (V/cell)	5 min	10 min	15 min	20 min	30 min	45 min	1h	1.5h	2h
1.60	493	369	290	243	182	137	106.8	83.0	65.0
1.65	459	356	284	240	181	136	104.9	82.4	65.0
1.70	419	336	274	236	178	134	104.9	81.6	65.0
1.75	387	312	266	227	174	131	103.0	80.8	65.0
1.80	360	284	254	212	165	126	101.6	78.9	63.4

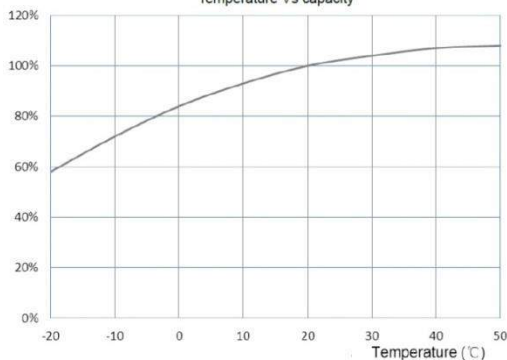
  

End voltage (V/cell)	3h	5h	10h	20h	24h	48h	100h	120h	240h
1.60	47.1	32.2	19.0	10.20	9.15	4.86	2.5	2.2	1.17
1.65	47.1	32.2	18.8	10.20	9.15	4.86	2.5	2.2	1.17
1.70	47.1	32.2	18.8	10.20	9.15	4.86	2.5	2.2	1.17
1.75	47.1	32.2	18.6	10.20	9.15	4.86	2.5	2.2	1.17
1.80	45.9	30.5	18.1	9.92	8.80	4.86	2.5	2.2	1.17

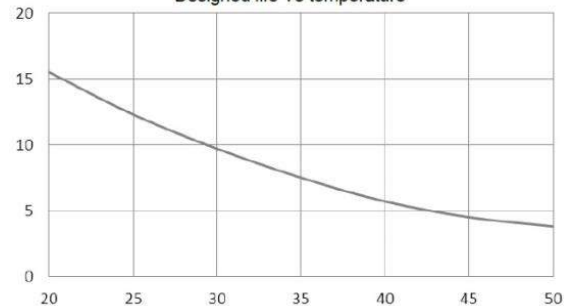
DOD VS cycles



Temperature Vs capacity



Designed life Vs temperature



Charge performance

