

# PG 12-160

## 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
- 160Ah 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

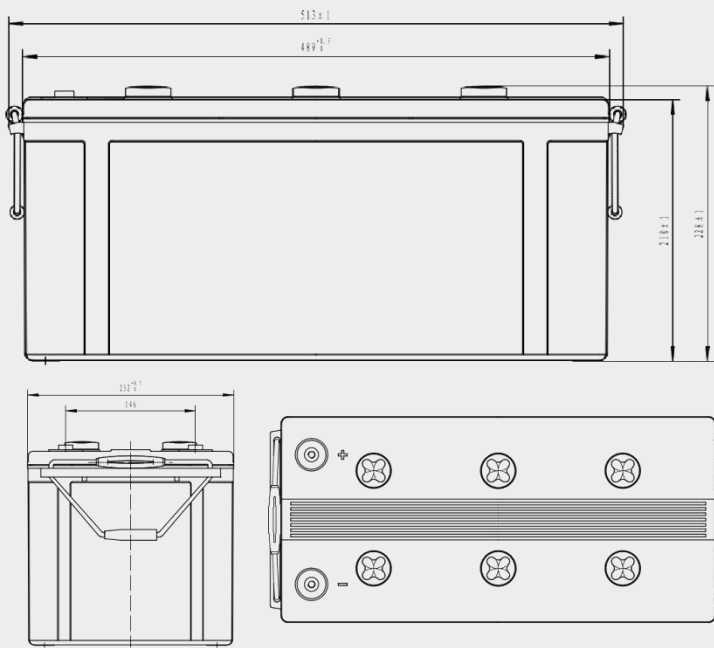
- 12 year expected life
- Compliant with IEC 60896-21/22



The panzerplatte gel technology  
for a deep cycle life



# PG 12-160



## Product characteristics at 25°C

Dimensions	513 x 232 x 228 mm
Weight	63.8 kg
Expected life	12 years*
Internal resistance	3.65 mΩ
Self discharge rate	≤ 2% per month
Max charge current	30A
Max discharge current	1472A / 3 sec

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

C20	C10	C5
160 Ah	150 Ah	127Ah

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	419	305	238	200	146	114	86.7	67.4	51.6
1.65	398	295	233	196	144	112	85.1	66.5	51.6
1.70	374	279	229	192	143	109	85.1	65.4	51.6
1.75	347	259	221	184	138	106	83.6	64.5	51.6
1.80	296	236	207	172	131	102	82.5	62.7	50.1

End voltage (V/cell)	3h	5h	10h	20h	24h	48h	100h	120h	240h
1.60	39.30	26.25	15	8.1	6.93	3.65	1.88	1.64	0.87
1.65	39.30	26.25	15	8.1	6.93	3.65	1.88	1.64	0.87
1.70	39.30	26.25	15	8.1	6.93	3.65	1.88	1.64	0.87
1.75	39.30	26.25	15	8.1	6.93	3.65	1.88	1.64	0.87
1.80	37.50	25.50	15	7.8	6.60	3.65	1.88	1.64	0.87

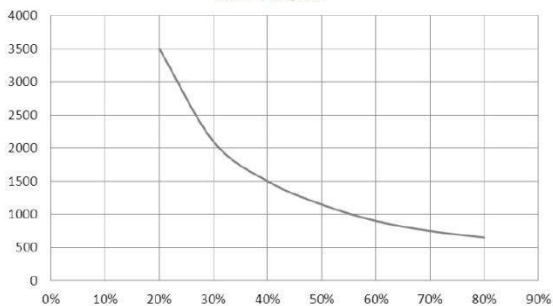
## Constant power discharge at 25°C (W/cell)

End voltage (V/cell)	5 min	10 min	15 min	20 min	30 min	45 min	1h	1.5h	2h
1.60	740	554	435	365	274	206	160.2	124.5	97.5
1.65	688	534	425	361	271	204	157.4	123.6	97.5
1.70	629	504	411	353	267	201	157.4	122.4	97.5
1.75	580	467	398	340	260	196	154.5	121.2	97.5
1.80	539	426	380	319	248	189	152.4	118.4	95.1

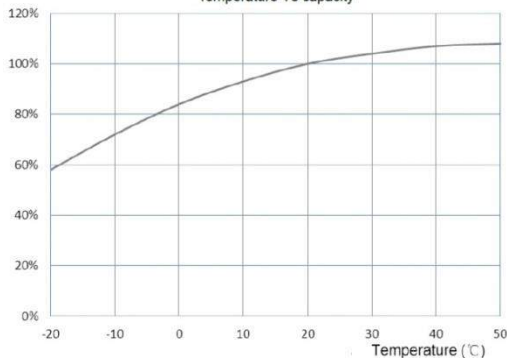
  

End voltage (V/cell)	3h	5h	10h	20h	24h	48h	100h	120h	240h
1.60	70.7	48.30	28.50	15.30	13.73	7.29	3.75	3.3	1.76
1.65	70.7	48.30	28.20	15.30	13.73	7.29	3.75	3.3	1.76
1.70	70.7	48.30	28.20	15.30	13.73	7.29	3.75	3.3	1.76
1.75	70.7	48.30	27.90	15.30	13.73	7.29	3.75	3.3	1.76
1.80	68.6	45.75	27.15	14.88	13.20	7.29	3.75	3.3	1.76

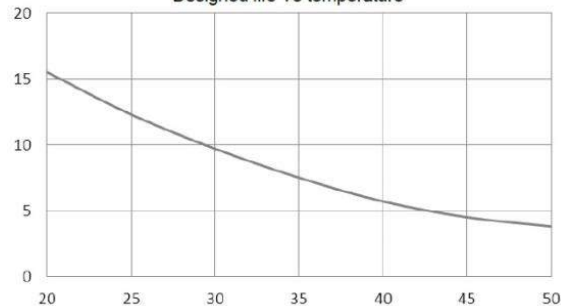
DOD VS cycles



Temperature Vs capacity



Designed life Vs temperature



Charge performance

