

Maintenance free sealed lead acid batteries *APS General Purpose Series*

APS12-230 (12V 230Ah)



Dimensions

Length: 520 mm
Width: 269 mm
Height: 203 mm
Total Height: 208 mm
Approx. Weight: 72.6 Kg

APPLICABLE STANDARDS

- JIS, DIN, IEC60896-2, BS 6290-4, IATA, UL, CE

APPLICATIONS

- UPS
- Telecommunications
- Utility power distribution
- Emergency lighting
- Photovoltaic / Solar / Wind
- Power stations
- Railways
- Engine starting



APS General Purpose Series batteries are designed for applications such as UPS, telecom, electrical utilities etc. With 10 years design life, the batteries comply with the most popular international standards such as IEC896-21/22, BS6290-4, Eurobat High Performance. The battery container and cover are available in both UL94V0 flame retardant ABS or HB ABS plastic. With more than 15 years of production experience the **APS General Purpose Series** of VRLA batteries are recognized as one of the most reliable and high quality battery system in the industry.

INNOVATIVE FEATURES

- Pos. & Neg. plates in lead-calcium tin alloy
- Superior energy density
- Low internal pressure
- Low self-discharge
- Useable in any orientation
- Supplied with lifting handles ($\geq 65\text{Ah}$)
- Optional flame Retardant ABS container

TECHNICAL SPECIFICATIONS

Voltage 12 volt nominal
Plate alloy Lead Calcium
Container/Case ... ABS
Charge voltage Float: 13.6 to 13.8 V @ 25 deg C
Max. Recharge 0.3 C10 (Amperes)
Shelf life 6 months @ 25 deg C
Design life 10 years

APS12-230 Technical Specifications

Constant Current Discharge Data* (Amperes @ 25°C)

End Voltage Per cell/V	10min	15min	20min	25min	30min	35min	40min	45min	50min	55min	60min
1.60	---	371	307	268	242	216	197	182	170	161	153
1.65	---	367	304	266	241	215	195	180	168	159	151
1.70	---	365	302	265	240	214	194	194	167	158	150
1.75	---	359	298	261	236	211	191	191	165	156	149
1.80	---	348	290	256	233	208	189	189	164	155	148

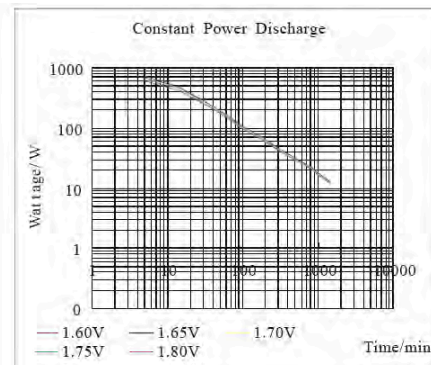
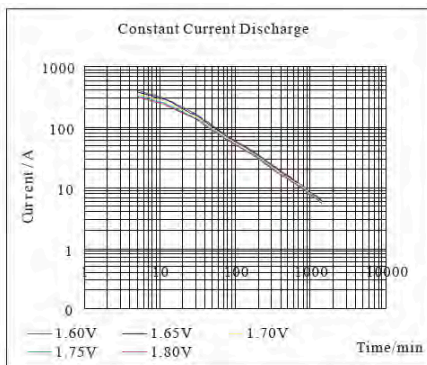
	1.5hr	2h	2.5hr	3h	5h	6hr	7hr	8hr	10hr	12hr	24hr
1.60	111	89.6	76.9	68.5	45.4	38.0	32.8	28.9	23.4	20.3	10.4
1.65	151	88.8	76.4	68.2	45.1	37.9	32.7	28.8	23.3	20.2	10.4
1.70	150	88.3	76.0	67.8	44.9	37.7	32.5	28.6	23.2	20.1	10.3
1.75	149	87.3	75.0	66.8	44.6	37.5	32.3	28.5	23.1	20.0	10.3
1.80	148	87.0	74.7	66.5	44.3	37.2	32.1	28.3	23.0	19.9	10.2

Constant Power Discharge Data* (Watts per cell @ 25°C)

End Voltage Per cell/V	10min	15min	20min	25min	30min	35min	40min	45min	50min	55min	60min
1.60	---	677	573	511	469	423	388	361	335	314	296
1.65	---	673	570	507	466	420	386	359	333	312	294
1.70	---	666	564	503	462	417	383	357	331	309	291
1.75	---	658	558	499	459	415	381	355	328	306	288
1.80	---	649	552	494	455	411	378	352	325	302	284

	1.5hr	2h	2.5hr	3h	5h	6hr	7hr	8hr	10hr	12hr	24hr
1.60	213	172	147	131	86.7	73.0	63.2	55.9	45.6	39.5	20.3
1.65	212	171	146	130	86.4	72.8	63.0	55.7	45.4	39.4	20.3
1.70	210	169	145	129	86.1	72.5	62.8	55.5	45.2	39.2	20.2
1.75	208	168	144	128	85.8	72.2	62.5	55.2	45.0	39.0	20.1
1.80	205	166	143	126	85.4	71.9	62.2	55.0	44.9	38.9	20.0

*All data is within standard production tolerances, electrical values are approximate and APS reserves the right to modify data without prior notice.
NB. The above characteristics data are average values obtained within three charge/discharge cycles not minimum values.



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