



Dimensions

- Length: 306 mm
- Width: 169 mm
- Height: 210 mm
- Total Height: 215 mm
- Approx. Weight: 30 Kg

APPLICABLE STANDARDS

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

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

APS12-90 (12V 90Ah)

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 (≥ 65Ah)
- 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

APS12-90 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	218	173	137	115	100	89.2	81.0	74.7	69.6	65.5	62.0
1.65	208	162	129	108	95.0	84.9	77.4	71.5	65.5	60.7	56.6
1.70	186	153	121	103	90.0	80.5	73.4	67.9	63.1	59.2	56.0
1.75	175	142	114	98.2	87.3	78.0	71.0	65.5	61.1	57.6	54.6
1.80	163	132	108	93.8	84.2	75.1	68.3	63.0	58.8	55.3	52.4

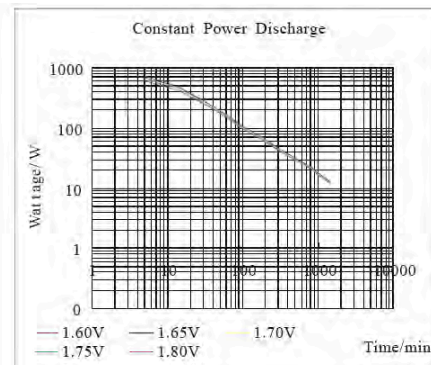
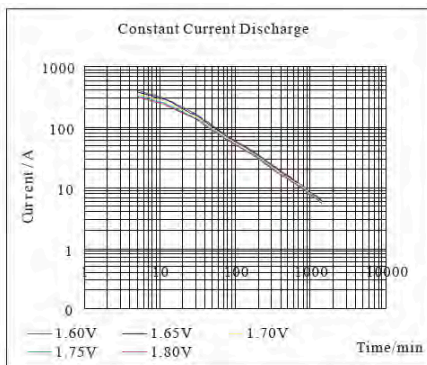
	1.5hr	2h	2.5hr	3h	5h	6hr	7hr	8hr	10hr	12hr	24hr
1.60	44.5	35.8	30.5	27.0	17.2	14.6	12.7	11.3	9.30	7.91	4.26
1.65	41.3	33.7	29.1	26.0	17.0	14.4	12.6	11.2	9.25	7.87	4.24
1.70	40.5	32.8	28.1	25.0	16.7	14.2	12.4	11.1	9.18	7.81	4.20
1.75	39.4	31.8	27.2	24.2	16.2	13.8	12.1	10.9	9.10	7.74	4.17
1.80	37.8	30.4	26.0	23.1	15.7	13.5	11.9	10.7	9.00	7.65	4.12

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	373	308	249	213	189	170	156	145	134	125	117
1.65	364	303	241	205	180	162	149	139	128	119	112
1.70	345	284	227	194	171	153	140	129	120	113	107
1.75	343	281	224	190	167	150	138	128	118	110	103
1.80	314	267	215	184	163	147	134	125	115	107	101

	1.5hr	2h	2.5hr	3h	5h	6hr	7hr	8hr	10hr	12hr	24hr
1.60	82.8	65.5	55.2	48.3	32.3	27.6	24.2	21.7	18.1	15.4	8.28
1.65	80.1	64.1	54.6	48.2	31.9	27.2	23.8	21.3	17.7	15.1	8.13
1.70	76.9	61.8	52.8	46.8	31.5	26.8	23.4	20.9	17.4	14.8	7.99
1.75	74.2	59.8	51.2	45.4	30.7	26.2	22.9	20.5	17.1	14.6	7.84
1.80	73.1	59.1	50.8	45.2	30.3	25.8	22.5	20.1	16.7	14.2	7.66

*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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