AS series

Valve Regulated Lead Acid Battery

Rechargeable · Sealed · Non-spillable · Maintenance-free

DANEN AS series are compact, high energy density, easily handled and environmentally friendly batteries which are suitable for a wide variety of applications. Built on ISO 9001 certified production lines, the AS series adopts Absorbent Glass Mat (AGM) technology which impregnates and retains the electrolyte on the separators to achieve maximum energy per given volume, offering optimum performance required by electrical and electronic equipment, in both standby and cyclic usages. The excellent cost-to-performance ratio in terms of ampere-hour makes AS series an extremely competitive battery product so far available in the market.

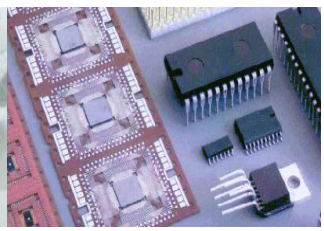
APPLICATION

- Telecommunications
- Uninterruptible Power Supply
- Emergency Alarms
- Control Equipment
- Medical Equipment
- Emergency Lighting
- Computerised backup
- Signalling & Access Control
- Security & Burglar Alarms
- Fire Detection Equipment
- Electric Wheelchairs & Movers
- Office Automation Devices
- Factory Automation Systems
- Photovoltaic & Solar Power Systems
- Electric Wheelchairs & Movers
- Elevator Emergency Operation
- Electric Toys & Models
- Electrical & Electronic Appliances
- Renewable Energy

and many others ...

DESIGN & FEATURES

Positive and Negative Electrodes	Flat plate with corrosion-resistant grid of lead-calcium alloy pasted with active material
Separator	Micro glass fibre separator
Electrolyte	Dilute sulphuric acid
Lid & Container	ABS material to flammability rating HB (optional flame retardant rating V0 available on request)
Pole Terminal	Flat lug, bolt & nut, threaded insert, pressure contact types or lead wires with plug
Safety Valve	Acid resistant synthetic rubber
Sealed Construction	Safe to be used in vertical or horizontal position
Gas Recombination Rate	Over 98%
Life Expectancy	10 years on optimum standby operation
Operational Temperature	-20°C to 50°C (perform best between 15°C to 25°C)
Self Discharge Rate	Approximately 2% of the rated capacity per month
Charging	Standby Use : 6.75~6.90V (for 6V blocks) 13.5~13.8V (for 12V blocks) Cycle Use : 7.20~7.50V (for 6V blocks) 14.4~15.0V (for 12V blocks)
Standard	IEC 60896-21/-22, JIS C 8702, ISO 9001



SPECIFICATION

Battery Type	Nominal Voltage (V)	Nominal Capacity C_{20} (Ah)	Dimensions (mm)				Weight (kg)	Terminal Type	Variant Type with same layout & same dimensions
			Length	Width	Height	T.Height			
AS6-1	6	1.0	51	42	51	56	0.22	FL	
AS6-1.3	6	1.3	98	25	52	56	0.30	FL	
AS6-3	6	3.0	66	33	97	103	0.62	FL	
AS6-3.3	6	3.3	134	34	60	66	0.73	FL	
AS6-4	6	4.0	70	48	101	106	0.75	FL, LWP	4.5Ah, 5.0Ah
AS6-7	6	7.0	151	34	94	100	1.20	FL	7.5Ah, 8.0Ah
AS6-9	6	9.0	98	56	118	118	1.70	FL	
AS6-10	6	10	151	50	94	100	1.80	FL	12Ah, 15Ah
AS6-14	6	14	108	70	140	140	2.30	LWP	
AS6-20	6	20	157	83	125	125	3.30	FL	
AS12-0.8	12	0.8	96	25	62	62	0.35	LWP	
AS12-1.3	12	1.3	98	45	50	56	0.60	FL	
AS12-2.3	12	2.3	178	34	60	66	0.90	FL	
AS12-3	12	3.0	134	66	60	66	1.40	FL	3.3Ah
AS12-4	12	4.0	90	70	101	106	1.50	FL	4.5Ah, 5.0Ah
AS12-6.5	12	6.5	151	51	94	100	1.90	FL	5.0Ah, 6.0Ah
AS12-7.5	12	7.5	151	65	94	100	2.60	FL	7.2Ah, 8.0Ah, 9.0Ah
AS12-10	12	10	151	65	111	116	3.30	FL, BN	
AS12-12	12	12	151	98	94	100	3.80	FL, BN	15Ah
AS12-18	12	18	181	77	167	167	5.60	BN	17Ah, 20Ah
AS12-26	12	26	175	166	125	125	8.50	BN, TI	24Ah, 28Ah
AS12-33	12	33	196	131	155	180	11.0	BN, TI	35Ah
AS12-40	12	40	197	165	170	170	14.0	BN, TI	44Ah
AS12-55	12	55	230	138	208	228	18.0	BN, TI	60Ah
AS12-70	12	70	350	166	179	179	22.0	BN, TI	
AS12-75	12	75	260	169	208	228	22.0	BN, TI	85Ah
AS12-95	12	95	307	169	208	228	28.0	BN, TI	
AS12-105	12	105	330	174	217	238	32.0	BN, TI	
AS12-130	12	130	407	174	209	233	38.0	BN, TI	
AS12-160	12	160	484	171	241	241	44.0	BN, TI	
AS12-210	12	210	522	240	216	237	65.0	BN, TI	
AS12-270	12	270	520	268	220	241	79.0	BN, TI	

Detailed specification sheet for each battery type is available on request

Terminal Type : FL = Flat Lug BN = Bolt & Nut TI = Threaded Insert LWP = Lead Wires with Plug

ADJUSTMENT OF FLOAT VOLTAGE

In standby applications, if the ambient temperature differs from 20°C for a long period, it is important to adjust the float charge voltage, preferably with an automatic temperature compensation device incorporated in the charger, to match the prevailing temperature as in the adjacent table.

Temperature	0°C	5°C	10°C	15°C	20°C	25°C	30°C	35°C
Float Voltage for 6V Battery	7.26	7.17	7.08	6.99	6.90	6.81	6.75	6.69
Float Voltage for 12V Battery	14.52	14.34	14.16	13.98	13.80	13.62	13.50	13.38

DISCHARGE

The battery must not be left in a discharged condition but must be immediately recharged (or returned to float charge mode immediately in a standby power application). Failure to observe these actions may result in reduction of service life and premature failure in operation.

STORAGE

The battery must always be stored in a fully charged condition at a dry and cool location. If the battery has to be stored for a long period, it must be recharged at least every 6 months at 2.40V/cell. In case the average ambient temperature is 30°C or higher, it is recommended to recharge the battery in storage every 3 months to maintain its optimal performance.

We reserve the right to make technical modifications without prior notice