PS - 12380

12v/38.0Ah Flame retardant battery

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Key Features include:

- UL94-V0 flame retardant case
- Compliant with EN60950-1 requirements for enclosures
- Tested & approved to latest industry standards
- Maintenance free sealed lead battery
- Low self-discharge rate
- Operational in any orientation
- Low internal resistance
- High long-term stability
- High capacity
- 100% recyclable

Description

Application

The maintenance free, sealed lead battery of the PS... Series are suitable for protection systems. They can be used for intrusion, fire and access control systems to guarantee their continuous operation in case of a power failure.

Features

The capacity of the maintenance free lead batteries are the product of the discharge current (A) and the discharge time (h) specified in ampere hour (Ah), whereas the capacity and the discharge voltage curve depend directly on the discharge current (see Fig. 1).

Several batteries can be connected in parallel to increase the total capacity, but it is required to use batteries with the same nominal capacity and voltage.

Several batteries can be connected in series to increase the closed circuit voltage, but it is required to use batteries with the same nominal capacity and voltage.

If possible the correct size of battery should be chosen for the load of the system.

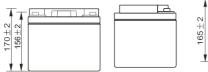
The operation of the battery below the end-point voltage will lead to a deep discharge of the battery. Deep discharged batteries cannot provide the initial capacity until they are fully recharged. The batteries of the PS... Series are protected against a deep discharge, which means they can be charged up to their nominal capacity again after a deep discharge, without any degradation of the capacity. Deep discharge situations should be avoided to help protect the life of the battery.

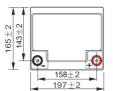
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Dimensions (mm)





Standard terminal (mm)

T6 Threaded Insert 6mm Stud



Constant Current Discharge (Amperes) at 25°C (77°F)														
F.V/Time	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	44.5	37.3	33.2	27.5	21.20	18.20	11.80	8.84	7.24	6.09	5.34	4.28	3.68	1.96
1.80V/cell	50.9	42.0	36.7	29.9	22.90	19.20	12.60	9.50	7.70	6.46	5.66	4.51	3.80	2.03
1.75V/cell	57.9	47.3	40.5	32.5	25.00	20.90	13.10	9.88	7.97	6.61	5.83	4.66	3.90	2.08
1.70V/cell	65.3	52.5	44.7	35.5	26.90	22.10	13.90	10.40	8.32	6.99	6.11	4.85	4.05	2.14
1.65V/cell	70.1	56.2	47.6	37.4	28.50	22.90	14.40	10.80	8.65	7.21	6.33	5.02	4.17	2.20
1.60V/cell	77.1	61.6	51.7	39.9	29.60	23.60	14.70	11.10	8.84	7.39	6.46	5.11	4.25	2.24
Constant Power Discharge (Watts/Cell) at 25°C (77°F)														
F.V/Time	5min	10min	15min	20mon	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h
1.85V/cell	83.0	70.5	63.2	53.0	41.2	35.4	23.10	17.40	14.30	12.10	10.60	8.54	7.36	3.93
1.80V/cell	93.9	78.1	68.9	56.7	44.1	37.2	24.60	18.60	15.10	12.70	11.20	8.96	7.58	4.06
1.75V/cell	104.9	87.0	75.4	61.1	47.7	40.3	25.50	19.30	15.60	13.00	11.50	9.24	7.78	4.16
1.70V/cell	115.9	95.2	82.6	66.3	51.2	42.5	26.80	20.20	16.30	13.70	12.00	9.62	8.07	4.26
1.65V/cell	123.3	101.1	87.2	69.4	53.7	43.7	27.70	21.00	16.80	14.10	12.40	9.92	8.29	4.39
1.60V/cell	1.60132.6	109.0	93.7	73.6	55.5	44.8	28.20	21.40	17.20	14.40	12.60	10.10	8.45	4.45



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Discharge Characteristics (25°C, 77°F)

Rated Capacity	20hr Rate (1.80V/cell) 10hr Rate (1.80V/cell) 5hr Rate (1.75V/cell) 3hr Rate (1.75V/cell) 1hr Rate (1.60V/cell)	2.30AH 2.14AH 1.93AH 1.69AH 1.40AH	age Charge	Cycle	Initial Charging Current Less than 0.575A Voltage 14.40V~15.0V At 25°C (77°F)
Capacity Affected by Temperature	40 °C (104°F) 25°C (77°F) 0°C (32°F)	103% 100% 86%	Constant Voltage	Standby	Recommended Charge Current less than 0.52A Voltage 13.5V 13.8V at 25°C (77°F)

Technical Data

Nominal voltage	12V			
Nominal capacity (20HR)	2.1Ah			
Material	Thick walled ABS UL94-V0			
Transportation	Non-hazardous (air / sea / rail / road)			
Operating temperature	-20 to +60°C			
Storage temperature	-20 to +60°C			
Life expectancy	3-5 years under float charge conditions			
Internal resistance	90.0 Ω			
Dimensions				
- Length	178 ± 2 mm			
- Width	35 ± 2 mm			
 Container height 	60 ± 2 mm			
- Terminal height	66 ± 2 mm			
Terminal type	F1			
Approvals	VdS – G 103145			

Ordering Data

Туре	Art. No.	Designation	Weight
PS12380	N54545-Z160-A100	Battery 12v/38.0Ah Flame Ret.	13.2Kg

Data and design subject to change without notice. Supply subject to availability.

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