12v/17.0Ah Flame retardant battery





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.

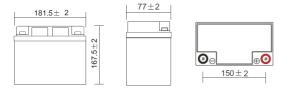
The operation of the battery below the end-point voltage will lead to a deep discharge of the battery. Deep discharged batteries cannot provide the initial capacity until they are fully recharged. The batteries of the PS... Series are protected against a deep discharge, which means they can be charged 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.

PS - 12170

12v/1.70Ah Flame retardant battery



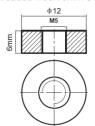
■ Dimensions (mm)



Standard terminal (mm)

T12 Terminal

Threaded insert 5mm Stud



Torque: 2.0 - 3.0 Nm

				C F	Nia a la a u au	. (\ -+	2E°C /7	70F\			
Constant Current Discharge (Amperes) at 25°C (77°F)												
F.V/Time	15min	20min	30min	45min	1h	2h	3h	4h	5h	8h	10h	20h
1.85V/cell	18.3	15.2	11.8	9.36	7.57	4.96	3.72	3.05	2.58	1.80	1.53	0.81
1.80V/cell	20.3	16.7	12.7	9.94	7.98	5.28	3.93	3.20	2.71	1.89	1.60	0.84
1.75V/cell	22.5	18.3	13.7	10.6	8.61	5.53	4.16	3.34	2.85	1.95	1.63	0.86
1.70V/cell	24.6	20.0	15.1	11.1	9.09	5.83	4.35	3.48	2.96	2.02	1.69	0.87
1.65V/cell	26.0	21.1	15.9	11.8	9.41	6.03	4.51	3.60	3.03	2.07	1.72	0.90
1.60V/cell	28.6	22.9	16.9	12.2	9.76	6.28	4.66	3.71	3.13	2.13	1.76	0.92
Constant Power Discharge (Watts/cell) at 25°C (77°F)												
F.V/Time	15min	20min	30min	45min	1h	2h	3h	4h	5h	8h	10h	20h
1.85V/cell	34.5	29.0	22.7	18.2	14.8	9.74	7.33	6.02	5.11	3.59	3.06	1.63
1.80V/cell	37.8	31.4	24.2	19.1	15.5	10.3	7.68	6.28	5.33	3.76	3.19	1.68
1.75V/cell	41.4	34.1	25.8	20.3	16.6	10.7	8.11	6.53	5.59	3.86	3.26	1.71
1.70V/cell	44.6	36.9	28.2	21.1	17.5	11.3	8.46	6.80	5.81	4.00	3.36	1.74
1.65V/cell	47.0	38.8	29.6	22.3	18.0	11.6	8.75	7.02	5.92	4.10	3.43	1.78
1.60V/cell	50.5	41.5	31.1	22.9	18.5	12.0	8.99	7.21	6.10	4.20	3.50	1.82



PS - 12170

12v/17.0Ah Flame retardant battery



■ Discharge Characteristics (25°C, 77°F)

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

■ Technical Data

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

Ordering Data

Туре	Art. No.	Designation	Weight
PS12170	N54545-Z158-A100	Battery 12v/17.0Ah Flame Ret.	5.7Kg

Issued by Vanderbilt Clonshaugh Business and Technology Park Clonshaugh Dublin 17 Ireland www.vanderbiltindustries.com

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

