

- High Quality With 5 Year Design Life
- Completely Maintenance Free
- Increased Durability & Deep Cycle Ability For Heavy Demand Applications.
- Fully Tank Formed Plates
- Spill Proof / Leak Proof
- Valve Regulated
- Multi Position Usage
- ABS Case & Cover



Specification

Nominal Voltage.....	6V & 12V
Design Life.....	5 Years
Technology.....	AGM
Grid Alloy.....	Calcium / Tin Lead Alloy
Plates.....	Flat pasted
Separator.....	Absorbed Glass Mat.
Charge Voltage.....	Float : 2.27 to 2.30 VPC (20°C) Cycling : 2.35 VPC (20°C) Max : 2.4 VPC
Max Charge Current Ripple.....	0.05C (A)
Electrolyte.....	Sulphuric Acid (Low Impurity)
Venting Valve.....	EPDM Rubber, 1.5 – 2 PSI (10÷15 kPa) releases pressure Resealing at 1 PSI (7kPa)
Terminal.....	Epoxy sealed with extended mechanical paths
Operating Temperature	-20 to +50 °C
Connections.....	Faston Tab style terminals Threaded insert terminals for larger batteries
Torque Setting.....	5-7 Nm for threaded inserts

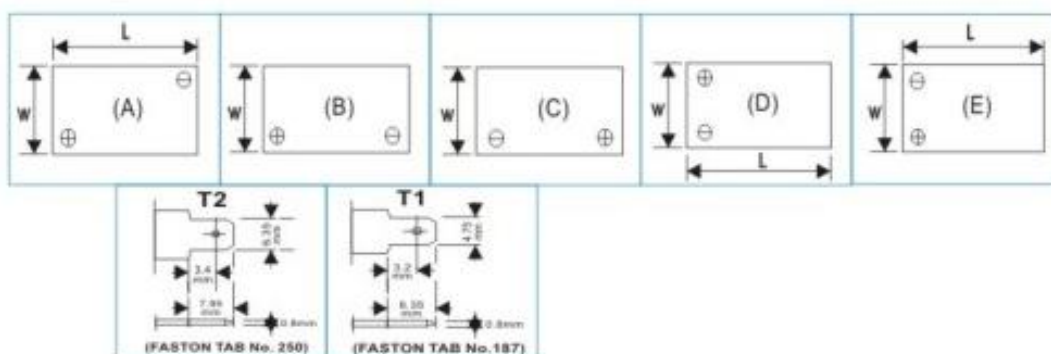
Models and Ratings.

Model	Output Voltage	Capacity (Ah)	Terminal Type	Size mm (L,W,H)
HSC 06-4.5	6 V	4.5 Ah	A-T1	70 x 48 x 101
HSC 06-7.5	6 V	7.5 Ah	B-T1	150 x 34 x 94
HSC 06-10	6 V	10 Ah	B-T1	151 x 50 x 93.5
HSC 06-12	6 V	12 Ah	B-T2	151 x 50 x 93.5
HSC 12-5	12 V	5 Ah	D-T1	90 x 70 x 101
HSC 12-5L	12 V	5 Ah	D-T2	90 x 70 x 101
HSC 12-7	12 V	7 Ah	D-T1	151 x 65 x 94

Please see next page for higher capacity 12 Volt Batteries and Terminal Details

Model	Output Voltage	Capacity (Ah)	Terminal Type	Size mm (L,W,H)
HSC 12-7.5	12 V	7.5 Ah	D-T2	151 x 65 x 94
HSC 12-10	12 V	10 Ah	D-T2	151 x 64 x 110
HSC 12-12	12 V	12 Ah	D-T2	150 x 97 x 94
HSC 12-18	12 V	18 Ah	C-Insert	181 x 76 x 167
HSC 12-26	12 V	26 Ah	C-Insert	165 x 174 x 125
HSC 12-33	12 V	33 Ah	B-Insert	193 x 130 x 166
HSC 12-44	12 V	44 Ah	C-Insert	198 x 167 x 157

Connection Details.



Charging Characteristics

Operating Temperature °C	Recommended Float Charge VPC
0~9	2.33~2.35
10~14	2.30~2.33
15~19	2.27~2.30
20~24	2.27~2.30
25~29	2.25~2.27
30~34	2.23~2.25
35~40	2.21~2.25

Floating :

The optimum float voltage for a battery is temperature dependant. At 15~24°C the recommended value is 2.27~2.30 VPC. It is recommended that battery installation sites are temperature controlled, however float voltage can be increased or decreased to compensate for temperature variations as shown in the table on the left (-3mV per degree C)

The most suitable charging method for battery life and performance is the constant voltage method with a limited initial current, usually to a maximum of C20 Ah Rating / 4

Capacity Temperature Correction Factor

Temperature	0°C	5°C	10°C	15°C	20°C	25°C	30°C	35°C	40°C
Discharge Time									
5~60 Min	0.8	0.86	0.91	0.96	1	1.037	1.063	1.085	1.1
1~100 hr	0.86	0.9	0.93	0.97	1	1.028	1.05	1.063	1.07

Note for table above, Multiply nominal Ah Capacity rating by factor in above table depending on discharge time and temperature, ie : 12Ah battery used at 10°C & discharged over 4 hours = 11.16 Ah effective capacity.

Specifications may change without notice. E&OE. ALL PSU Terms & Conditions apply.

**ALL PSU Ltd, Unit D6 Laser Quay, Culpeper Close, Medway City Estate,
Rochester, Kent, ME2 4HU, Tel : 01634 725527, Fax : 01634 739111,
Email : sales@allpsu.co.uk Web : www.allpsu.co.uk**