WINNER ICARUS

12350W

AGM High Discharge Rate series

Datasheet Q1/2016

Specifications

Nominal Voltage	12V
Nominal Power @ 20 °C (15min)	350W/Cell @ 1.67 V/Cell
Dimensions	
Length	304 mm
Width	168 mm
Container Height	208 mm
Total Height	227 mm
Max Discharge Current	900 A (5sec)
Max Charging Current	27.0 A
Standard Terminals	F18
Container Material	ABS UL 94 HB ABS UL 94 V-0 on request

Characteristics

Capacity 25° C	
20 hr @ 5.30 A	106.00 Ah
1.5 hr @ 43.73 A	65.60 Ah
1 hr @ 55.47 A	55.47 Ah
1 C @ 106.00 A	53.00 Ah
Internal Resistance	5.0 mΩ
Charging Voltage (25 °C)	
Standby Use	2.275±0.025V/CELL
	(-3.3mV/°C/CELL)
Cycle Use	2.45±0.05V/CELL
	(-5.0mV/°C/CELL)
Weight	29 Kg

The WINNER ICARUS technology

WINNER ICARUS series is designed for High Rate discharge performance and service life in either float or cyclic applications, even after repeated over-discharges. It incorporates the latest AGM VRLA technology and excellent know-how. It is tested according to international standard IEC 60896-21 and complies to defined requirements of IEC 60896-22.
The unique construction and sealing techniques of WINNER ICARUS High Rate series guarantee leak proof operation in any position, with no adverse effect to capacity or service life.

Positive plate

The positive plates are made of a grid frame of heavy duty lead-tin-calcium alloy and active material of porous lead dioxide.

Negative plate

The negative plates are made of a grid frame of lead-tin-calcium alloy as well and with active material of spongy lead.

Separator

The separators are made of non-woven fabric of fine glass fibers and are chemically stable in the electrolyte sulfuric acid. The high porousness fully absorbs the electrolyte and prevents shorting between positive and negative plates.

Terminal structure

The electrode terminals are protected due to both the structure that secures long adhesive - embedded paths and the use of strong epoxy material.

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Electrolyte

They utilize an electrolyte suspension system consisting a high porosity, glass fiber material, which in conjunction with plates, totally absorbs the electrolyte.

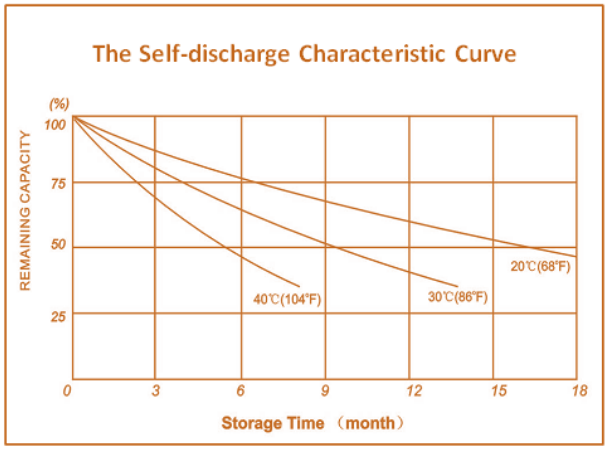
Safety valves

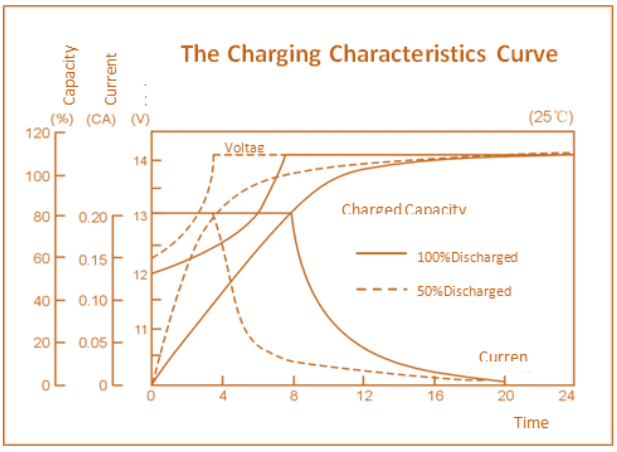
The incorporated built-in design controls gas generation and induces recombination of more than 99% of gasses generated during float usage. Special safety release valves, designed to operate between 2 and 5 psi automatically reseal, preventing an excessive accumulation of gas inside the battery.

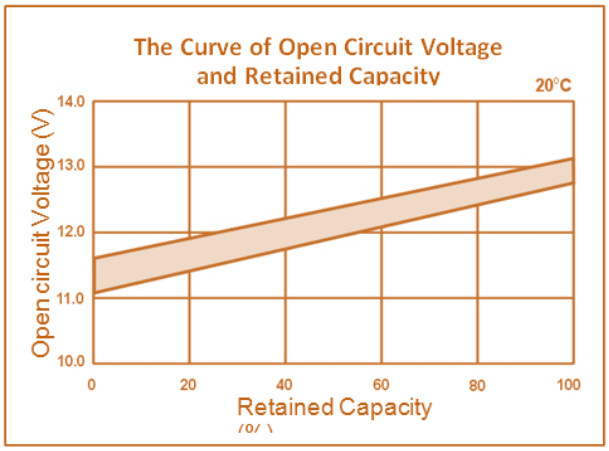
Container

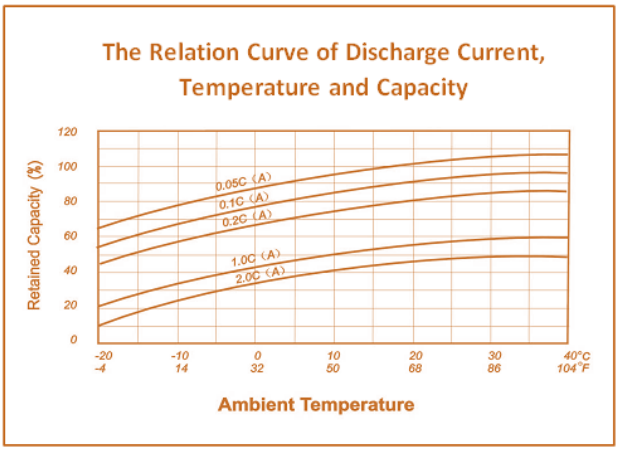
The battery case is made of ABS material, is shock resistant and it can be also available as flame retardant too.

Diagrams









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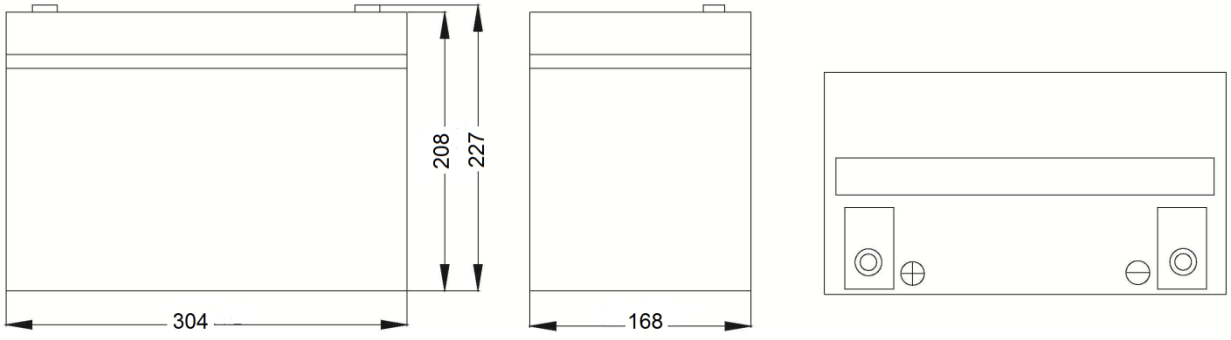
Constant Current Discharge Data: AMPERES (25°C)

	MINUTES - AMPERE CONSTANT CURRENT DISCHARGE (25 °C)							
[A]	F.V	5,00	8,00	10,00	15,00	20,00	30,00	60,00	90,00
	1,85	222,20	220,00	179,20	150,30	120,00	88,90	52,49	41,25
	1,80	260,20	239,00	194,70	157,70	124,40	92,00	54,16	42,98
	1,75	288,30	248,80	217,50	165,20	128,50	96,00	55,47	43,73
	1,70	321,10	258,40	238,10	174,00	135,00	99,60	56,80	44,56
	1,67	330,90	264,80	251,40	181,10	138,70	101,40	57,79	45,37
	1,60	340,70	279,50	252,70	185,40	147,30	105,30	58,95	47,00

Constant Power Discharge Data: WATTS/cell (25°C)

	MINUTES - WATTS/CELL CONSTANT POWER DISCHARGE (25 °C)							
[W]	F.V	5,00	8,00	10,00	15,00	20,00	30,00	60,00	90,00
	1,85	422,83	410,67	396,50	304,67	231,00	171,67	102,37	80,67
	1,80	481,33	433,67	404,50	318,67	236,33	176,83	104,30	83,17
	1,75	528,50	451,67	412,50	332,50	243,83	183,00	106,10	83,67
	1,70	580,50	462,00	443,33	343,17	252,83	187,50	106,67	84,17
	1,67	587,33	474,67	464,50	353,67	257,83	190,33	107,48	85,17
	1,60	599,17	494,33	468,00	360,00	271,00	195,67	109,85	87,67

Dimensions - Terminals



Terminal F18