

WINNER ICARUS 12370W

AGM High Discharge Rate series

Datasheet Q1/2016

31.50 Kg

Characteristics

Specifications

Nominal Voltage	12V				
Nominal Power @ 20 °C (15min)	370W/Cell @ 1.67 V/Cell				
Dimensions					
Length	329 mm				
Width	172 mm				
Container Height	216 mm 223 mm				
Total Height					
Max Discharge Current	1000 A (5sec)				
Max Charging Current	30.0 A				
Standard Terminals	F18				
Container Material	ABS UL 94 HB				
Container widterial	ABS UL 94 V-0 on request				

Capacity 25° C				
20 hr @ 5.30 A	106.00 Ah			
5 hr @ 47.59 A	71.40 Ah			
1 hr @ 60.37 A	60.37 Ah			
1 C @ 106.00 A	53.00 Ah			
Internal Resistance	4.0 mΩ			
Charging Voltage (25 °C)				
Standby Use	2.275±0.025V/CELL			
Stalluby Ose	(-3.3mV/°C/CELL)			
Cyclo Uso	2.45±0.05V/CELL			
Cycle Use	(-5.0mV/°C/CELL)			

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.

Weight

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.



WINNER ICARUS 12370W

AGM High Discharge Rate series Datasheet Q1/2016

Electrolyte

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

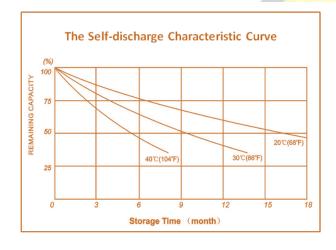
Safety valves

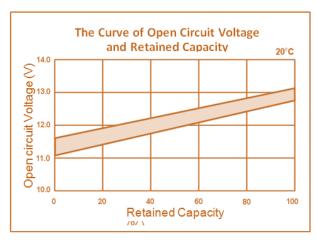
The incorporated built-in design controls gas generation and induces recombination of more than 99% of gasses generated during float usage. Special safety release valves, designed to operate between 2 and 5 psi automatically reseal, preventing an excessive accumulation of gas inside the battery.

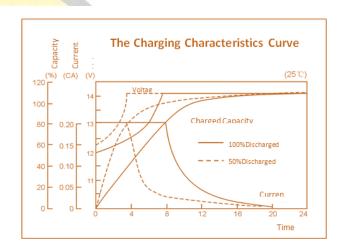
Container

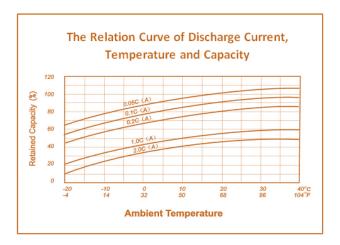
The battery case is made of ABS material, is shock resistant and it can be also available as flame retardant too.

Diagrams











WINNER ICARUS 12370W

AGM High Discharge Rate series Datasheet Q1/2016

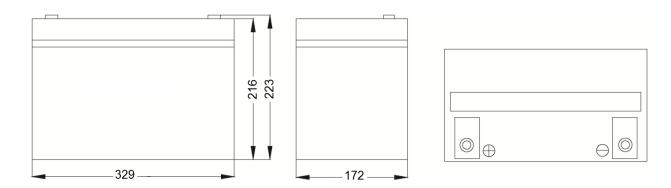
Constant Current Discharge Data: AMPERES (25°C)

	MINUTES - AMPERE CONSTANT CURRENT DISCHARGE (25 °C)								
	F.V	5,00	8,00	10,00	15,00	20,00	30,00	60,00	90,00
[A]	1,85	239,40	237,00	193,00	161,90	130,60	96,80	57,12	44,89
	1,80	280,30	257,50	209,80	169,90	135,40	100,10	58,94	46,77
	1,75	310,60	268,00	234,30	177,90	139,90	104,40	60,37	47,59
	1,70	345,90	278,40	256,50	187,50	146,90	108,40	61,81	48,50
	1,67	356,50	285,30	270,80	195,10	151,00	110,30	62,89	49,38
	1,60	367,10	301,10	272,20	199,80	160,30	114,50	64,15	61,14

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

	MINUTES - WATTS/CELL CONSTANT POWER DISCHARGE (25 °C)									
	F.V	5,00	8,00	10,00	15,00	20,00	30,00	60,00	90,00	
DA/I	1,85	455,50	442,50	427,17	328,17	251,33	186,67	111,40	87,67	
	1,80	518,67	467,17	435,83	343,17	257,17	192,50	113,50	90,50	
[W]	1,75	569,50	486,67	444,50	358,33	265,33	199,17	115,45	91,17	
	1,70	625,50	497,67	477,67	369,83	275, <mark>17</mark>	204,00	116,08	91,67	
	1,67	632,67	511,33	500,50	381,00	280,67	207,00	116,97	92,67	
	1,60	645,50	53 2,67	504,33	387 <mark>,8</mark> 3	295,00	213,00	119,53	95,33	

Dimensions - Terminals



Terminal F18

