

MODEL	OUTPUT VOLTS	OUTPUT AMPS	BANKS	DC CABLE SIZE	SIZE (INCHES) L x W x H	INPUT VOLTS	INPUT AMPS MAX	WEIGHT (LBS)
28106	12	6	1	4'	2.42 x 6.4 x 3.5	100-240	2	4

### Waterproof

The Maringo 28106 has an IP68 rating. This rating is described as dust tight and protected against the effects of immersion in water under pressure for long periods.

### Temperature Characteristics

Ambient Operating Temp Full Power	-40 °C to 50 °C
Storage Range	-40 °C to 70 °C

### 3.3. Voltages / Current

	Output Voltage	Output Current
Bulk	14.3VDC	5.5 – 6.5 Amps
Absorption	14.3VDC	3 – 6.5 Amps
Float	13.3VDC	0 – 3 Amps

**3.3.1. Soft Start** - "Soft Start" slowly charges the battery with 14.25V (10% of rated current). As soon as the max Soft Start timer (starts immediately when entering "Soft Start") of 6 hours is reached or when the battery reaches 10V for 30 seconds the charger switches to the "Bulk stage".

**3.3.2. Bulk** - "Bulk" charges the battery with 14.3V (100% of rated current) until the battery reaches 13.25V. As soon as the battery reaches 13.25V the Bulk timer will start counting after which it can charge the battery up to 12 hours until the voltage reaches 14.25V. As soon as the max Bulk timer (starts when voltage level is above 13.25V while in "Bulk") of 12 hours is reached or when the battery reaches 14.25V for 30 seconds the charger switches to the "Absorption stage".

**3.3.3. Absorption** - "Absorption" charges the battery with 14.25V. As soon as the Absorption timer (starts immediately when entering "Absorption") reaches 14 hours or when the charge current drops below 10% of the rated current for 30 seconds the charger switches to the "Float stage".

**3.3.4. Float** - "Float" keeps the charger on a specific voltage level of 13.25V (100% of rated current) for a period and then will switch to the "Maintenance stage"

**3.3.5. Maintenance** - As soon as the re-cycle timer reaches 14 days (336 hours) or when the voltage drops below 12.8V for 30 seconds the charger switches back to "Bulk stage"

### Protection

- Ignition Protection
- Over Current
- Over charge
- Reverse Polarity
- Thermal Protection
- Short Circuit

### Mounting Bulkhead mount (vertical at wall)

Hole diameter is .245 inches / .622 cm or clearance for #10 screw  
 Left to Right Center to Center = 5.671 inches / 14.40 cm  
 Top to Bottom Center to Center = 1.465 inches / 3.72 cm



### Charge Indicators

Unit has 2 LEDS, one Red and one Green in color. The following table should be used as indicator of the charger status.

	Red	Green
Soft start	On	Off
Bulk	On	Off
Absorption	On	On
Float	Off	On

REV	DESCRIPTION	ECN#	DWN	APVD	DATE
A	ISSUED ENGINEERING DRAWING	4414	CEZ	ACH	26JAN16

<small>THIS DRAWING AND THE INFORMATION HEREON ARE OUR PROPERTY AND MAY BE USED BY OTHERS ONLY AS AUTHORIZED BY US. UNPUBLISHED-ALL RIGHTS RESERVED UNDER THE COPYRIGHT LAWS</small>		<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	
MACHINE TOLERANCE DECIMAL mm inch X. ± 1.5 ± 0.06 X.X ± 0.8 ± 0.03 X.XX ± 0.3 ± 0.01 X.XXX ± 0.025 ± 0.001 X.XXXX ± 0.001 ANGULAR: ± 0.5°		DRWN CZENNI DATE 1/26/2016 ENGR AHIGGINS	NAME <b>BATTERY CHARGER, 120VAC          12VDC 6A 28106</b>
FABRICATION TOLERANCE DECIMAL mm inch X. ± 3 X.X ± 1.5 ± 0.12 X.XX ± 0.8 ± 0.06 ANGULAR: ± 1.0°		MATERIAL ASSEMBLY SIMILAR TO N/A	PART NO. G071952 SCALE NTS UNITS MM [INCH] PAGE 1 OF 1