

VOLTCRAFT

VOLTCRAFT - RELIABLE AND PRECISE. SINCE 1982.

For more than 40 years, our product range has been dynamically adapting to the constant changes in the industry. We commit to offering first-class quality to our customers while delivering an excellent cost-performance ratio. This philosophy remains the cornerstone of Voltcraft's success.

VC-12668698 LEAD BATTERY MAINTENANCE-FREE 12 V 80 AH

CE

Item no. 3324608

The rechargeable battery is a lead-lead dioxide system. The dilute sulfuric acid electrolyte is absorbed by the separators and plates and is thus immobilized. Should the battery be accidentally overcharged, producing hydrogen and oxygen, special one-way valves allow the gases to escape, thus avoiding excessive pressure build-up. Otherwise, the battery is completely sealed and is, therefore, maintenance-free, leak-proof, and usable in any position.

FEATURES

Absorbent Glass Mat (AGM) technology for efficient gas recombination of up to 99% and freedom from electrolyte maintenance or water adding // Not restricted for air transport-complies with IATA/ICAO Special Provision A67 // UL-recognized component // Can be mounted in any orientation // Computer designed lead, calcium tin alloy grid for high power density // Long service life, float or cyclic applications // Maintenance-free operation // Low self-discharge // Case and cover available in both standard and flame retardant ABS

TECHNICAL DATA

Battery Construction

Component	Raw material
Positive plate	Lead dioxide
Negative plate	Lead
Container	ABS
Cover	ABS
Safety valve	Rubber
Terminal	Copper
Separator	Fiberglass
Electrolyte	Sulfuric acid

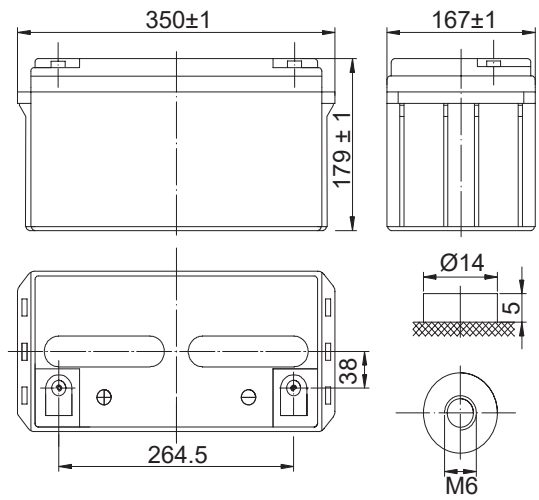


Dimensions & Weight

Product dimension (L x W x H)	350 x 167 x 179 mm
Total height	179 mm
Weight	approx. 23.5 kg (± 3%)

Performance Characteristics

Nominal voltage	12 V
Number of cell	6 pcs
Design life	10 years
Nominal capacity (25 °C)	10 hour rate (8.0 A, 10.8 V): 80.0 Ah 5 hour rate (14.4 A, 10.5 V): 72.0 Ah 1 hour rate (53.7 A, 9.6 V): 53.7 Ah
Internal resistance of fully charged battery (25 °C)	≤6.5 mOhms
Self-discharge (20 °C)	3% of capacity declined per month (average)
Operating temperature	Discharge: -20 to 60 °C Charge: -10 to 60 °C Storage: -20 to 60 °C
Max. discharge current (25 °C)	750 A (5s)
Short circuit current	1900 A
Charge methods	Constant voltage charge (25 °C)
Cycle use	14.4 - 14.7 V
Maximum charging current	24.0 A
Temperature compensation	-30 mV/°C
Standby use	13.2 - 13.8 V
Temperature compensation	-20 mV/°C



Discharge Constant Current (Amperes at 25 °C)

End Point Volts/Cell	10 min	15 min	30 min	45 min	1 h	3 h	5 h	10 h
1.60 V	188	149	87.3	66.2	53.7	22.7	15.0	8.20
1.65 V	178	137	83.0	62.2	51.6	22.5	14.7	8.15
1.70 V	168	132	80.3	61.0	49.8	22.4	14.7	8.10
1.75 V	159	126	77.6	57.3	47.1	21.8	14.4	8.05
1.80 V	149	118	75.0	55.9	46.3	20.7	14.1	8.00

Discharge Constant Power (Watts at 25 °C)

End Point Volts/Cell	10 min	15 min	30 min	45 min	1 h	2 h	3 h	5 h
1.60 V	323	258	165	124	98.6	56.5	42.5	27.9
1.65 V	310	250	157	122	97.8	55.3	41.1	27.4
1.70 V	299	246	151	117	93.8	53.7	40.4	27.0
1.75 V	287	232	149	114	92.3	53.0	39.9	26.8
1.80 V	275	218	146	111	88.5	51.4	39.0	26.4

Note: The above characteristics data are average values obtained over three charge/discharge cycles, not the minimum values. All data are subject to change without notice. The manufacturer reserves the right to clarify and update the information contained herein.

