

AC1229 12V 2.9Ah(20hr)



The rechargeable batteries are lead-lead dioxide systems. The dilute sulfuric acid electrolyte is absorbed by separators and plates and 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.

Battery Construction

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

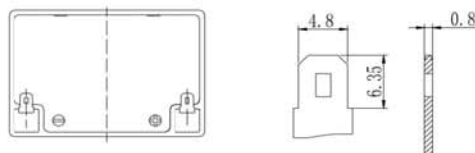
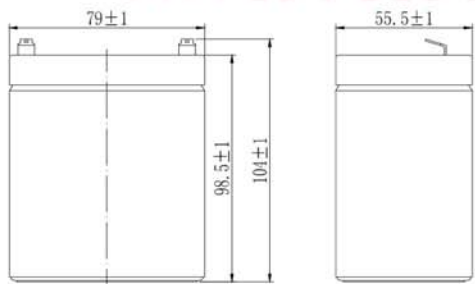
General Features

- 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.

Dimensions and Weight

Length(mm / inch)	79 / 3.11
Width(mm / inch)	55.5 / 2.19
Height(mm / inch)	98.5 / 3.88
Total Height(mm / inch)	104 / 4.09
Approx. Weight(Kg / lbs)	1.05 / 2.31

* Weight deviation: $\pm 5\%$



Performance Characteristics

Nominal Voltage	12V
Number of cell	6
Design Life	5 years
Nominal Capacity 77°F(25°C)	
20 hour rate (0.145A, 10.5V)	2.9Ah
10 hour rate (0.26A, 10.5V)	2.6Ah
5 hour rate (0.51A, 10.5V)	2.55Ah
1 hour rate (2.2A, 9.6V)	2.2Ah
Internal Resistance	
Fully Charged battery 77°F(25°C)	$\leq 50\text{mOhms}$
Self-Discharge	
3% of capacity declined per month at 20°C(average)	
Operating Temperature Range	
Discharge	-20~60°C
Charge	-10~60°C
Storage	-20~60°C
Max. Discharge Current 77°F(25°C)	43.5A(5s)
Short Circuit Current	145A
Charge Methods: Constant Voltage Charge 77°F(25°C)	
Cycle use	2.40-2.45VPC
Maximum charging current	1.16A
Temperature compensation	-30mV/°C
Standby use	2.23-2.30VPC
Temperature compensation	-20mV/°C

Discharge Constant Current (Amperes at 77°F25°C)

End Point Volts/Cell	5min	10min	15min	30min	1h	3h	5h	10h	20h
1.60V	13.8	9.00	7.13	4.20	2.20	0.85	0.55	0.29	0.160
1.65V	13.1	8.57	6.82	4.04	2.12	0.82	0.54	0.28	0.150
1.70V	12.3	8.12	6.48	3.86	2.04	0.79	0.52	0.27	0.150
1.75V	11.6	7.67	6.15	3.67	1.95	0.77	0.51	0.26	0.145
1.80V	10.9	7.22	5.81	3.48	1.85	0.73	0.49	0.26	0.140

Discharge Constant Power (Watts at 77°F25°C)

End Point Volts/Cell	5min	10min	15min	30min	1h	3h	5h
1.60V	26.46	17.15	13.72	8.15	4.28	1.66	1.05
1.65V	25.28	16.46	13.23	7.88	4.15	1.62	1.04
1.70V	23.91	15.68	12.64	7.58	4.01	1.57	1.02
1.75V	22.64	14.90	12.05	7.26	3.86	1.52	0.99
1.80V	21.36	14.01	11.47	6.91	3.68	1.46	0.96

(Note)The above characteristics data are average values obtained within three charge/discharge cycles not the minimum values.
All data shall be changed without notice, Accu reserves the right to explain and update the information contained hereinto.

AC1250 12V 5Ah(20hr)

The rechargeable batteries are lead-lead dioxide systems. The dilute sulfuric acid electrolyte is absorbed by separators and plates and 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.



Battery Construction

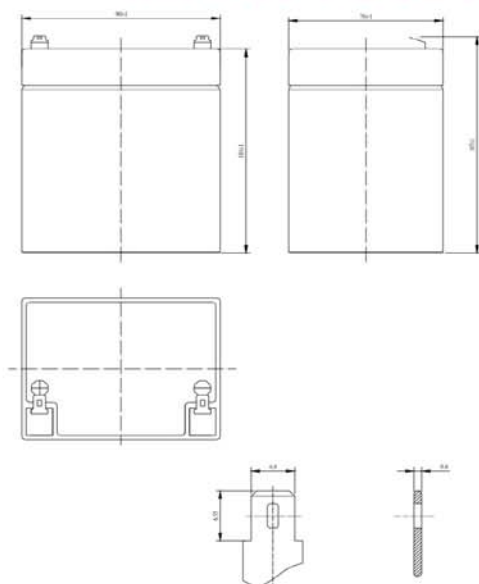
Component	Positive plate	Negative plate	Container	Cover	Safety valve	Terminal	Separator	Electrolyte
Raw material	Lead dioxide	Lead	ABS	ABS	Rubber	Copper	Fiberglass	Sulfuric acid

General 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.

Dimensions and Weight

Length(mm / inch)	90 / 3.54
Width(mm / inch)	70 / 2.76
Height(mm / inch)	101 / 3.98
Total Height(mm / inch)	107 / 4.21
Approx. Weight(Kg / lbs)	1.72 / 3.79



Performance Characteristics

Nominal Voltage	12V
Number of cell	6
Design Life	5 years
Nominal Capacity 77°F(25°C)	
20 hour rate (0.25A, 10.5V)	5Ah
10 hour rate (0.5A, 10.5V)	5Ah
5 hour rate (0.96A, 10.5V)	4.8Ah
1 hour rate (4.1A, 9.6V)	4.1Ah
Internal Resistance	
Fully Charged battery 77°F(25°C)	≤ 35mOhms
Self-Discharge	
3% of capacity declined per month at 20°C(average)	
Operating Temperature Range	
Discharge	-20~60°C
Charge	-10~60°C
Storage	-20~60°C
Max. Discharge Current 77°F(25°C)	75A(5s)
Short Circuit Current	270A
Charge Methods: Constant Voltage Charge 77°F(25°C)	
Cycle use	2.40-2.45VPC
Maximum charging current	2A
Temperature compensation	-30mV/°C
Standby use	2.23-2.30VPC
Temperature compensation	-20mV/°C

Discharge Constant Current (Amperes at 77°F25°C)

End Point Volts/Cell	5min	10min	15min	30min	1h	3h	5h	10h	20h
1.60V	26.5	17.5	13.0	7.30	4.10	1.55	1.01	0.52	0.27
1.65V	25.4	17.2	12.7	7.20	4.02	1.51	0.98	0.51	0.26
1.70V	24.3	17.0	12.4	7.13	4.00	1.48	0.97	0.50	0.26
1.75V	23.1	16.5	12.1	7.10	3.99	1.44	0.96	0.50	0.25
1.80V	21.8	15.8	12.0	7.02	3.98	1.40	0.95	0.50	0.25

Discharge Constant Power (Watts at 77°F25°C)

End Point Volts/Cell	5min	10min	15min	30min	45min	1h	2h	3h	5h
1.60V	49.5	35.2	25.7	14.6	10.00	8.05	4.40	3.05	2.01
1.65V	47.1	34.0	25.2	14.4	9.75	8.03	4.30	2.99	1.98
1.70V	44.8	33.5	25.0	14.3	9.50	8.00	4.21	2.93	1.95
1.75V	42.3	32.5	24.3	14.3	9.25	7.99	4.12	2.86	1.91
1.80V	39.8	31.6	23.5	14.2	9.00	7.97	4.02	2.80	1.88

(Note)The above characteristics data are average values obtained within three charge/discharge cycles not the minimum values.

AC1255 12V 5.5Ah(20hr)

The rechargeable batteries are lead-lead dioxide systems. The dilute sulfuric acid electrolyte is absorbed by separators and plates and 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.



Battery Construction

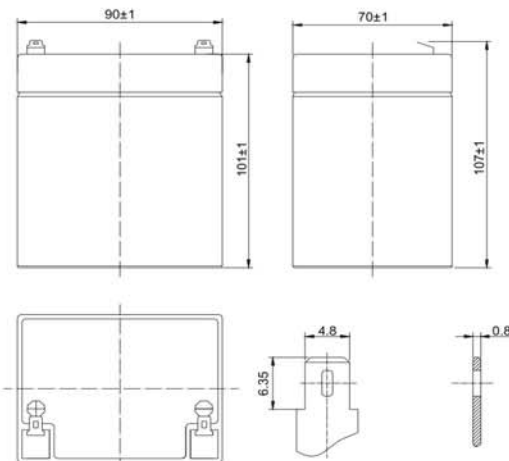
Component	Positive plate	Negative plate	Container	Cover	Safety valve	Terminal	Separator	Electrolyte
Raw material	Lead dioxide	Lead	ABS	ABS	Rubber	Copper	Fiberglass	Sulfuric acid

General 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.

Dimensions and Weight

Length(mm / inch)	90 / 3.54
Width(mm / inch)	70 / 2.76
Height(mm / inch)	101 / 3.98
Total Height(mm / inch)	107 / 4.21
Approx. Weight(Kg / lbs)	1.85 / 4.08



Performance Characteristics

Nominal Voltage	12V
Number of cell	6
Design Life	5 years
Nominal Capacity 77°F(25°C)	
20 hour rate (0.26A, 10.5V)	5.5Ah
10 hour rate (0.51A, 10.5V)	5.1Ah
5 hour rate (1.01A, 10.5V)	5.05Ah
1 hour rate (4.14A, 9.6V)	4.14Ah
Internal Resistance	
Fully Charged battery 77°F(25°C)	26mOhms
Self-Discharge	
3% of capacity declined per month at 20°C(average)	
Operating Temperature Range	
Discharge	-20~60°C
Charge	-10~60°C
Storage	-20~60°C
Max. Discharge Current 77°F(25°C)	75A(5s)
Short Circuit Current	250A
Charge Methods: Constant Voltage Charge 77°F(25°C)	
Cycle use	2.40-2.45VPC
Maximum charging current	2A
Temperature compensation	-30mV/°C
Standby use	2.23-2.30VPC
Temperature compensation	-20mV/°C

Discharge Constant Current (Amperes at 77°F25°C)

End Point Volts/Cell	5min	10min	15min	30min	1h	5h	10h	20h
1.60V	25.5	16.1	13.1	7.51	4.14	1.03	0.52	0.27
1.65V	25.3	16.0	12.9	7.20	4.11	1.03	0.52	0.27
1.70V	25.0	15.9	12.8	7.06	4.07	1.02	0.52	0.27
1.75V	24.7	15.6	12.7	6.92	4.03	1.01	0.51	0.26
1.80V	24.1	15.3	12.5	6.88	3.99	1.00	0.50	0.26

Discharge Constant Power (Watts at 77°F25°C)

End Point Volts/Cell	5min	10min	15min	30min	45min	1h	3h	5h
1.60V	50.3	32.9	25.3	14.3	10.2	8.20	3.28	2.00
1.65V	49.8	32.6	25.1	14.2	10.2	8.14	3.27	1.99
1.70V	49.1	32.2	24.9	14.1	10.1	8.10	3.26	1.99
1.75V	48.4	32.0	24.7	14.0	10.0	8.05	3.24	1.98
1.80V	47.6	30.6	24.4	14.0	9.9	8.00	3.20	1.97

(Note)The above characteristics data are average values obtained within three charge/discharge cycles not the minimum values.

AC1272 12V 7.2Ah (20hr)



The rechargeable batteries are lead-lead dioxide systems. The dilute sulfuric acid electrolyte is absorbed by separators and plates and 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.

Battery Construction

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

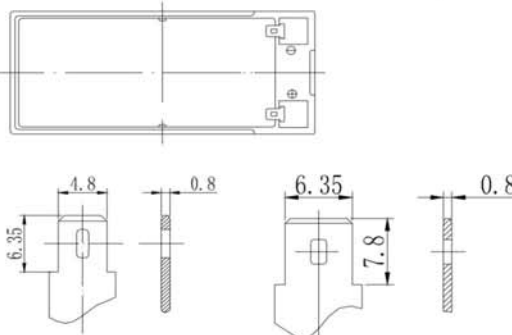
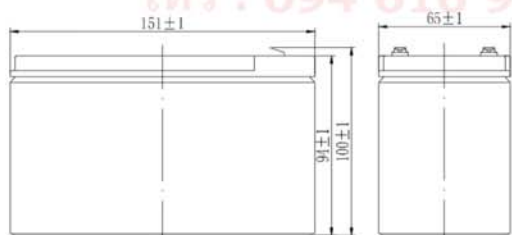
General Features

- 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.

Dimensions and Weight

Length(mm / inch)	151 / 5.94
Width(mm / inch)	65 / 2.56
Height(mm / inch)	94 / 3.70
Total Height(mm / inch)	100 / 3.94
Approx. Weight(Kg / lbs)	2.2 / 4.84

Weight deviation: $\pm 5\%$



terminal
F1 (0.187)

terminal (optional)
F2 (0.250)

Performance Characteristics

Nominal Voltage	12V
Number of cell	6
Design Life	5 years
Nominal Capacity 77°F(25°C)	
20 hour rate (0.36A, 10.5V)	7.2Ah
10 hour rate (0.69A, 10.5V)	6.7Ah
5 hour rate (1.16A, 10.5V)	5.6Ah
1 hour rate (4.8A, 9.6V)	4.6Ah
Internal Resistance	
Fully Charged battery 77°F(25°C)	25mOhms
Self-Discharge	
3% of capacity declined per month at 20°C(average)	
Operating Temperature Range	
Discharge	-20~60°C
Charge	-10~60°C
Storage	-20~60°C
Max. Discharge Current 77°F(25°C)	105A(5s)
Short Circuit Current	350A
Charge Methods: Constant Voltage Charge 77°F(25°C)	
Cycle use	2.30-2.35VPC
Maximum charging current	2.88A
Temperature compensation	-30mV/°C
Standby use	2.23-2.27VPC
Temperature compensation	-20mV/°C

Discharge Constant Current (Amperes at 77°F25°C)

End Point Volts/Cell	5min	10min	15min	30min	1h	3h	5h	10h	20h
1.60V	30.0	18.8	15.3	8.50	4.80	1.88	1.25	0.71	0.38
1.65V	28.4	17.9	14.6	8.15	4.63	1.82	1.20	0.70	0.38
1.70V	26.8	17.0	13.9	7.86	4.44	1.76	1.16	0.70	0.37
1.75V	25.2	16.0	13.2	7.56	4.25	1.69	1.12	0.69	0.36
1.80V	23.5	15.1	12.5	7.18	4.04	1.64	1.10	0.67	0.35

Discharge Constant Power (Watts at 77°F25°C)

End Point Volts/Cell	5min	10min	15min	30min	45min	1h	2h	3h	5h
1.60V	53.3	35.8	28.1	15.5	11.8	9.30	5.13	3.68	2.38
1.65V	50.7	34.0	27.0	14.9	11.3	8.90	5.02	3.59	2.34
1.70V	48.1	32.2	25.9	14.3	10.8	8.53	4.89	3.49	2.30
1.75V	45.6	30.4	24.8	13.7	10.4	8.28	4.73	3.38	2.25
1.80V	43.1	28.6	23.8	13.2	10.0	7.90	4.58	3.27	2.19

(Note)The above characteristics data are average values obtained within three charge/discharge cycles not the minimum values.

AC1275 12V 7.5Ah(20hr)

The rechargeable batteries are lead-lead dioxide systems. The dilute sulfuric acid electrolyte is absorbed by separators and plates and 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.



Battery Construction

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

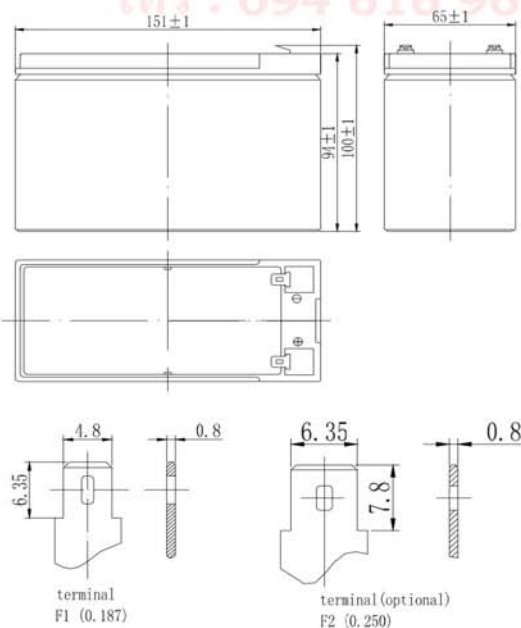
General Features

- 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.

Dimensions and Weight

Length(mm / inch)	151 / 5.94
Width(mm / inch)	65 / 2.56
Height(mm / inch)	94 / 3.70
Total Height(mm / inch)	100 / 3.94
Approx. Weight(Kg / lbs)	2.3 / 5.07

* Weight deviation: $\pm 5\%$



Performance Characteristics

Nominal Voltage	12V
Number of cell	6
Design Life	5 years
Nominal Capacity 77°F(25°C)	
20 hour rate (0.375A, 10.5V)	7.5Ah
10 hour rate (0.73A, 10.5V)	7.3Ah
5 hour rate (1.32A, 10.5V)	6.6Ah
1 hour rate (5.47A, 9.6V)	5.47Ah
Internal Resistance	
Fully Charged battery 77°F(25°C)	$\leq 25\text{mOhms}$
Self-Discharge	
3% of capacity declined per month at 20°C(average)	
Operating Temperature Range	
Discharge	-20~60°C
Charge	-10~60°C
Storage	-20~60°C
Max. Discharge Current 77°F(25°C)	115A(5s)
Short Circuit Current	390A
Charge Methods: Constant Voltage Charge 77°F(25°C)	
Cycle use	2.40-2.45VPC
Maximum charging current	3.0A
Temperature compensation	-30mV/°C
Standby use	2.23-2.30VPC
Temperature compensation	-20mV/°C

Discharge Constant Current (Amperes at 77°F25°C)

End Point Volts/cell	5min	10min	15min	30min	1h	3h	5h	10h	20h
1.60V	34.2	21.4	14.9	9.05	5.47	2.14	1.47	0.76	0.390
1.65V	32.4	20.4	14.5	8.93	5.28	2.07	1.43	0.75	0.385
1.70V	30.6	19.4	14.1	8.78	5.06	2.01	1.37	0.74	0.380
1.75V	28.7	18.2	13.7	8.58	4.85	1.93	1.32	0.73	0.375
1.80V	26.8	17.2	13.1	8.35	4.61	1.87	1.28	0.72	0.365

Discharge Constant Power (Watts at 77°F25°C)

End Point Volts/cell	5min	10min	15min	30min	45min	1h	2h	3h	5h
1.60V	60.8	40.8	28.3	16.3	12.4	9.70	5.85	4.20	2.71
1.65V	57.8	38.8	27.7	16.1	12.3	9.58	5.72	4.09	2.67
1.70V	54.8	36.7	27.0	15.9	12.1	9.42	5.57	3.98	2.62
1.75V	52.0	34.7	26.3	15.6	11.9	9.24	5.39	3.85	2.57
1.80V	49.1	32.6	25.5	15.2	11.6	9.01	5.22	3.73	2.50

(Note)The above characteristics data are average values obtained within three charge/discharge cycles not the minimum values.
All data shall be changed without notice, Accu reserves the right to explain and update the information contained hereinto.

AC1290 12V 9Ah

The rechargeable batteries are lead-lead dioxide systems. The dilute sulfuric acid electrolyte is absorbed by separators and plates and 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.



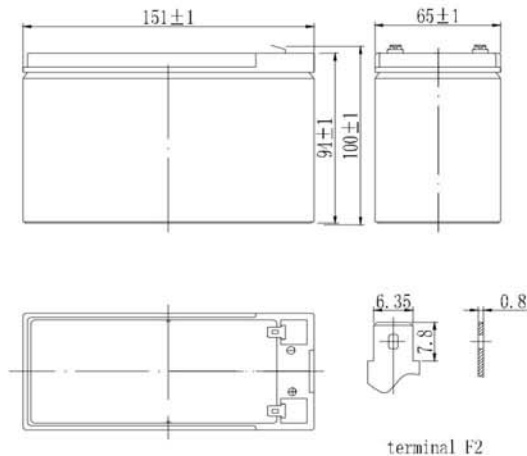
Construction

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

General 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.

Dimensions and Weight



Technology Parameter

Battery model	CP1290H			
nominal voltage	12V			
Number of cell	6			
Capacity (25 °C)	20hR(0.45A, 10.5V)	10hR(0.86A, 10.5V)	5hR(1.57A, 10.5V)	1hR(6.66A, 9.60V)
	9Ah	8.6Ah	7.85Ah	6.66Ah
Dimensions	Length	Width	Height	Total Height
	151±1mm	65±1mm	94±1mm	100±1mm
Approx. weight	2.50Kg (5.50 lbs)			
Internal resistance	Full charged at 25 °C : 14mOhms			
Self discharge	3% of capacity declined per month at 20 °C (average)			
Operating temperature range	Discharge	Charge	Storage	
	-20! 60 °C	-10! 60 °C	-20! 60 °C	
Max. discharge current (25 °C)	135A (5s)			
Short circuit current	450A			

Discharge Constant Current (Amperes at 77°F25°C)

End Point Volts/Cell	5min	10min	15min	30min	1h	3h	5h	10h	20h
1.60V	37.2	26.5	20.1	11.6	6.66	2.59	1.62	0.88	0.43
1.65V	35.6	25.3	19.4	11.1	6.42	2.53	1.61	0.87	0.47
1.70V	34.1	24.3	18.7	10.5	6.18	2.46	1.59	0.87	0.46
1.75V	32.6	23.2	17.9	9.86	5.94	2.39	1.57	0.86	0.45
1.80V	31	22.2	17.1	9.21	5.68	2.32	1.55	0.85	0.44

Discharge Constant Power (Watts at 77°F25°C)

End Point Volts/Cell	5min	10min	15min	30min	45min	1h	2h	3h	5h
1.60V	76.7	50.0	36.1	21.5	15.9	12.4	6.85	4.84	3.27
1.65V	73.3	47.2	35	20.8	15.3	12	6.72	4.79	3.24
1.70V	68.9	45.4	33.9	20.0	14.7	11.5	6.59	4.74	3.21
1.75V	65.3	43.8	32.8	19.2	14.1	11	6.46	4.69	3.18
1.80V	61.7	42.1	31.7	18.4	13.5	10.5	6.32	4.64	3.15