

Applications

Rack-mounted lead-acid battery packs are widely used in data centers, communication base stations, industrial equipment, and residential environments. Their primary function is to provide stable and reliable uninterruptible power supply (UPS) for servers, network devices, and critical household loads (such as security systems, smart home hubs, and home office setups), ensuring continuous system operation during main power outages.

Benefiting from a compact rack-mounted design and high power density, these battery packs enable easy deployment and straightforward maintenance. Simultaneously, their modular architecture supports flexible expansion, allowing precise matching of power requirements across diverse application scenarios – ranging from large-scale data centers to home users. This effectively safeguards the business continuity and security of critical equipment or systems.



Characteristic

- Full-sealed steel casing | Impact and vibration resistance
- Freestanding vertical or 19-inch rack-mountable
- Modular 9Ah base unit, Under 25°C, the designed floating life is up to 5 years
- Seamless parallel expansion with hot-swappable parallel kits

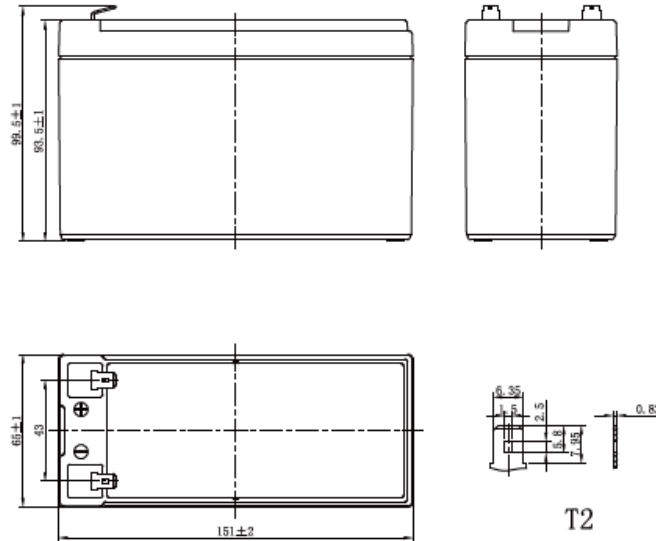
Battery Pack Technical Parameter

Battery Cabinet	
Output voltage	36V
Battery capacity	DC12V 9AH
Battery qty	6PCS/pack
Battery box width x depth x height (mm)	438x380x88mm
Battery switch	50A//1P
Pack weight (Kg)	6.2kg (pack only),21.3kg(Including batteries)
Operating temperature	0~ 40°C (Battery life is shortened at > 25°C)
Relative humidity	0-95% No condensation

Battery Technical Parameter

Parameter	Value
Rated Voltage	12V
Nominal Capacity (Cref, 1.75V/cell)	9.0Ah
Dimensions	Length: 151mm (5.94 inches)
	Width: 65±1mm (2.56 inches)
	Container Height: 93.5±1mm (3.68 inches)
	Total Height (with terminals): 99.5±1mm (3.92 inches)
Approx Weight	2.52kg (5.56 lbs)
Terminal	T1/T2
Container Material	ABS
Rated Capacity (25°C)	9 Ah C20(0.450A, 1.75V/cell)
	8.51 Ah C10(0.851A, 1.75V/cell)
	7.75 Ah C5(1.55A, 1.75V/cell)
	6.90 Ah C3(2.30A, 1.75V/cell)
	5.98 Ah C1(5.98A, 1.60V/cell)
Max. Discharge Current	135A (5s)
Internal Resistance (25°C)	Approx 17mΩ
Operating Temp. Range	Discharge: -20 - 55°C (-4 - 131°F)
	Charge: -20 - 40°C (-4 - 104°F)
	Storage: -15 - 50°C (5 - 122°F)
Nominal Operating Temp. Range	25±3°C (77±5°F)
Max. Charging Current (25°C)	2.70A
Charge voltage (25°C)	Float: 2.25~2.30V/cell, Temp. Coefficient: -3mV/cell/°C
	Equalization: 2.35~2.40V/cell, Temp. Coefficient: -4mV/cell/°C
	Cycle: 2.40~2.50V/cell, Temp. Coefficient: -5mV/cell/°C
Effect of temp. to Capacity	40°C (104°F): 103%
	25°C (77°F): 100%
	0°C (32°F): 86%
Self-Discharge	≤3%/month @ 25°C

Battery Layout



Constant Current Discharge (25°C)

F.V/Time	5min	10min	15min	20min	30min	45min	1h	1.5h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	30.2	20.7	16.1	12.9	9.34	6.72	5.41	3.92	3.08	2.22	1.77	1.51	1.29	1.02	0.832	0.44
1.80V/cell	32.4	21.9	16.9	13.4	9.63	6.9	5.54	4	3.14	2.26	1.8	1.53	1.31	1.03	0.843	0.445
1.75V/cell	34.2	22.8	17.4	13.8	9.88	7.05	5.66	4.08	3.19	2.3	1.82	1.55	1.33	1.04	0.851	0.45
1.70V/cell	35.8	23.7	18	14.2	10.1	7.21	5.76	4.15	3.24	2.33	1.85	1.57	1.34	1.05	0.86	0.454
1.67V/cell	37	24.4	18.5	14.5	10.3	7.32	5.85	4.2	3.28	2.35	1.86	1.58	1.35	1.06	0.866	0.457
1.60V/cell	39.3	25.4	19.1	14.9	10.6	7.5	5.98	4.29	3.34	2.4	1.9	1.61	1.37	1.08	0.877	0.462

Ordering Information

No.	PN	Description	QTY	Unit	Remark
1	BP-R36V2UA	Rack-Mounted external battery pack for 1kVA UPS	1	PCS	

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