



Images are only for illustration purpose.

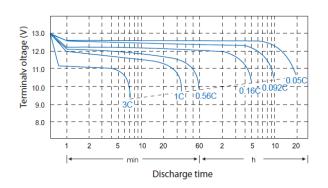
Specifications

Nomi	nal Voltage	12V					
Rated Cap	acity(20 hour rate)	45Ah					
	Total Height (with terminals)	6.70inches (170mm)					
Dimensions	Height	6.70inches (170mm)					
	Length	7.80inches (198mm)					
	Width	6.54inches (166mm)					
	Weight	Approx. 30.36pound(13.8kg)					

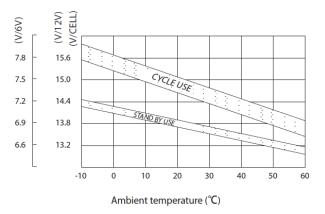
Characteristics

		20 hour rate (2.25A)	45.0Ah			
Capacity		10 hour rate (4.05A)	40.5Ah			
77°F(25°C)		5 hour rate (7.20A)	36.0Ah			
		1 hour rate (27.0A)	27.0Ah			
		15 minute Rate (74.4A)	18.6Ah			
Internal Resistance		Full charged Battery 77°F(25°C)	6.5mΩ			
		104°F(40°C)	102%			
Capacity affected by	/	77°F(25°C)	100%			
Temperature (20 hou	r rate)	32°F(0°C)	85%			
		5°F(-15°C)	65%			
		Capacityafter 3 month storage	91%			
Self-Discharge 77°F(20°C)		Capacityafter 6 month storage	81%			
		Capacityafter 12 month storage	60%			
Max. Discharge Current 77°F(25°C)		450A(5S)				
Terminal		M1				
	<u> </u>	Initial Charging Current less than 13.5A				
	Cycle	Voltage 14.4~14.7V/77°F(25°C)				
(ConstantVoltage)	Float	Voltage 13.5~13.8V/77°F(25°C	C)			

Discharge Curves 77 $^{\circ}$ F (25 $^{\circ}$ C)



Relationship between charge voltage and temperature



GN-DS-C

Page 1 of 3

GIGANET NETWORKING SOLUTIONS LTD | 9 De Montfort Street | Leicester | LE1 7GE | UK

Telephone: +44 (0)208 844 2639 Fax: +44(0)844 822 2456 Email: sales@giga-net.co.uk Web: www.giga-net.co.uk



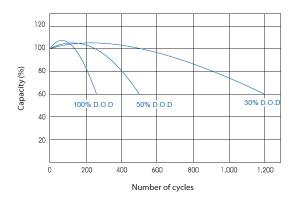
Constant Current Discharge (AMPERES $@25^{\circ}C$)

F.V/Time	10Min	15Min	30Min	45Min	1Hour	2Hour	3Hour	5Hour	8Hour	10Hour	12Hour	24Hour
1,65	97.7	75.6	45.9	36.0	24.39	17.01	11.75	7.88	5.58	4.41	3.78	1.95
1,70	92.3	70.7	39.1	34.1	23.36	16.61	11.25	7.61	5.36	4.32	3.67	1.91
1.80	77.9	61.7	35.3	32.2	22.23	15.89	10.62	7.20	5.04	4.14	3.57	1.88

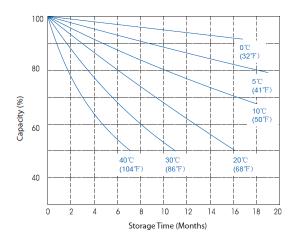
■ Constant Power Discharge (WATTS PER CELL@25°C)

F.V/Time	10Min	15Min	30Min	45Min	1Hour	2Hour	3Hour	5Hour	8Hour	10Hour	12Hour	24Hour
1.60	169	134	83.1	62.4	52.8	29.9	21.3	14.3	9.47	8.01	6.85	3.45
1,65	164	131	82.6	61.9	51.2	29.0	21.0	14.1	9.41	7.93	6.75	3.43
1 _' 67	162	128	81.5	60.8	50.4	28.9	20.9	14.0	9.30	7.84	6.68	3.40
1.70	160	126	80.1	59.7	49.6	28.7	20.7	13.7	9.18	7.77	6.59	3.33
1.75	151	120	79.8	58.7	49.3	28.5	20.6	13.6	9.09	7.70	6.42	3.27
1.80	138	111	75.9	56.6	48.4	27.9	20.1	13.4	8.79	7.44	6.30	3.17
1.85	115	99.0	69.1	53.8	45.0	26.9	19.6	12.7	8.54	7.11	6.06	3.08

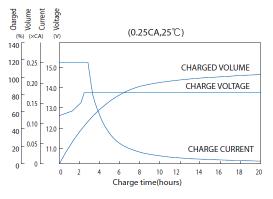
Cycle service life in relation to depth of discharge



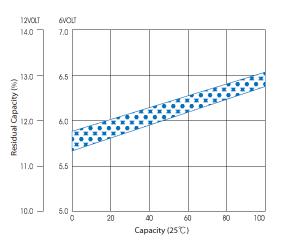




Constant voltage charge characteristic



■ Relationship of OCV and Residual Capacity % (25°C)



GN-DS-C

Page 2 of 3

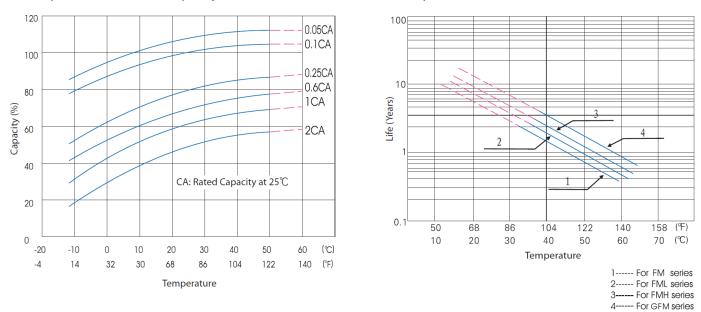
GIGANET NETWORKING SOLUTIONS LTD | 9 De Montfort Street | Leicester | LE1 7GE | UK

Telephone: +44 (0)208 844 2639 Fax: +44(0)844 822 2456 Email: sales@giga-net.co.uk Web: www.giga-net.co.uk

BACKUP POWER Giganet External VRLA Batteries – 12V 45AH

Temperature effects float life

Temperature effects on capacity



Note: The operating environment temperature above 40°C should be avoided, after long term storage, the battery actual capacity would be less than the rated capacity. Full capacity will be obtained through several charge/discharge cycles.

To get the longest life, Giganet battery should be fully charged before storage.

Ordering Information

Part Number	Product Description
GN-BATT-12V045AH	Giganet 12V, 45AH External VRLA Battery

Page 3 of 3

GIGANET NETWORKING SOLUTIONS LTD | 9 De Montfort Street | Leicester | LE1 7GE | UK

Telephone: +44 (0)208 844 2639 Fax: +44(0)844 822 2456 Email: sales@giga-net.co.uk Web: www.giga-net.co.uk