

CTV 33-12

Datasheet

Innovative Features

- Completely maintenance free, sealed construction eliminates the need for watering
- Fully tank formed plates
- Analytical Grade electrolyte
- Spill proof / leak proof
- Valve regulated Max internal pressure 2.5 psi
- Multi-position usage
- ABS Case and cover V0 on request
- Low self discharge
- FAA and IATA approved as non-hazardous
- Built to comply with IEC 896-2, DIN 43534, BS 6290 Pt4, Eurobat.



Specifications

Nominal Voltage 12 Volts

Nominal Capacity 33Ah (C20 @ 20 °C)

Design Life 12 Years
Operating Temperature -20 °C to 50 °C

Grid alloy Calcium / Tin lead alloy

Plates Flat Pasted

Separator Microporous polymer
Active material Very high purity lead
Case and cover ABS (VO on request)

Charge Voltage Float 2.25 - 2.30 VPC @25 °C Cycling 2.35 @25 °C

Max. 2.4 VPC Max ripple 0.05C (A)

Electrolyte Gelled Sulphuric acid Analytical grade purity

Venting Valve EPDM Rubber 1.5 to 2 psi (10.5 - 14 KPa) release pressure. Resealing at 1

psi (7 KPa)

Terminal Epoxy sealed by extended mechanical paths





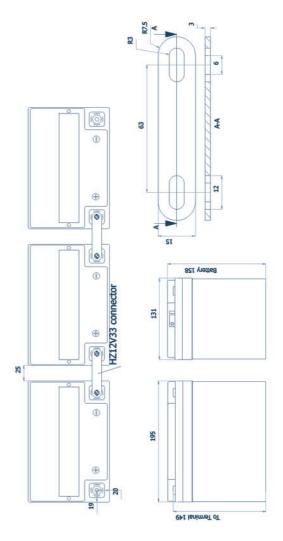
CTM GmbH keenly encourages environmental awareness; PLEASE follow guidlines for recycling/disposal of lead www.**ctm-berlin**.de info@ctm-berlin.de

We power the future.

Specifications

	Nominal Voltage Nominal Capacity	12V 33Ah	
	Total Height	160 mm	6.30 inches
	(Inc. terminals)	- mm	n/a inches
Dimensions	Length	195 mm	7.68 inches
	Width	130 mm	5.12 inches
	Weight	10.9 Kg	24.09 lbs

Characteristics						
	20 hour	rate	31.6 Ah			
	10 hour	27.7 Ah				
Capacity 20 °C (68 °F)	5 hour	rate	24.4 Ah			
To 1,7 volts	1 hour	rate	19.5 Ah			
	15 min	rate	13.3 Ah			
	Internal Re	Internal Resistance				
	Impeda	S				
	40	40 °C (104 °F)				
Capacity corrections for Temperature Variations (C20)	20	100%				
	0	85%				
	+1	65%				
Self-Discharge	Capacity af	98%				
20 °C (68 °F)	Capacity af	94%				
	Capacity af	86%				
Short Circuit Current 20 °C (68 °F)	10 00	1100				
Terminal	Standard	M6 thread				
	Optional	Optional Cu Flag Lea				
Charging (Constant Voltage)	Cyclic	2.35 - 2.40 VPC	(20-25 °C)			
(Constant Voltage)	Float	SUBSTRUCTION SUBSTRUCTION OF THE SUBSTRUCTION				



Constant Power Discharge - Watts per Cell @ 20 °C

End V per Cell	5M	10M	15M	20M	25M	30M	35M	40M	45M	60M	90M	2hr	3hr	4hr
1.85	144	112	89.7	75.0	65.7	58.9	52.9	48.3	44.2	35.2	25.1	19.4	13.4	10.7
1.80	158	120	92.6	78.9	68.0	60.3	54.5	49.2	45.3	36.2	25.6	19.8	13.8	11.0
1.75	163	123	95.8	80.3	68.7	61.3	54.7	49.5	45.5	36.5	25.7	19.9	13.9	11.0
1.70	165	124	96.6	82.0	70.0	62.3	55.3	50.1	45.8	36.8	25.9	20.1	14.2	11.4
1.65	167	125	97.3	82.8	70.8	62.6	55.7	50.4	46.3	37.1	26.3	-	-	-
1.60	173	127	98.8	83.6	71.5	63.4	56.4	51.0	46.7	37.5	26.4	-	-	-

Constant Amps Discharge - Amps @ 20 °C

End V per Cell	5M	10M	15M	20M	25M	30M	35M	40M	45M	60M	90M	2hr	3hr	4hr	5hr	8hr	10hr	12hr	20hr
1.85	77.1	59.8	47.9	39.9	34.9	31.1	27.9	25.4	23.2	18.4	13.0	10.0	6.88	5.44	4.56	3.18	2.62	2.28	1.52
1.80	86.3	65.1	50.1	42.5	36.4	32.2	29.0	26.1	23.9	19.0	13.3	10.3	7.10	5.64	4.71	3.29	2.69	2.34	1.55
1.75	90.1	67.3	52.3	43.6	37.1	32.9	29.2	26.3	24.1	19.2	13.5	10.3	7.19	5.67	4.74	3.30	2.71	2.35	1.56
1.70	92.0	68.5	53.1	44.8	38.0	33.6	29.7	26.8	24.4	19.5	13.6	10.5	7.36	5.86	4.88	3.38	2.77	2.40	1.58
1.65	93.5	69.5	53.7	45.3	38.5	33.9	30.0	27.0	24.7	19.6	13.8	7.	1	7		7.		7.	-
1.60	97.1	71.0	54.7	45.9	39.0	34.4	30.4	27.4	24.9	19.9	13.9	-	-				-	-	-

Ampere Hour @ 20 °C

End V per Cell	2hr	3hr	4hr	5hr	8hr	10hr	12hr	20hr
1.85	20.0	20.6	21.8	22.8	25.4	26.2	27.4	30.4
1.80	20.5	21.3	22.6	23.6	26.3	26.9	28.1	31.1
1.75	20.7	21.6	22.7	23.7	26.4	27.1	28.2	31.2
1.70	20.9	22.1	23.4	24.4	27.1	27.7	28.8	31.6