

Hitachi Chemical

HITACHI

BATTERY

CS3

PRODUCT APPLICATION ▶

ALL series

Product Manual



© Hitachi Chemical Energy Technology Co., Ltd.



As a world leading manufacturer of Valve Regulated Lead-Acid (VRLA) batteries, our products are utilized in over 100 countries in UPS, telecommunications, emergency lighting, security, electric vehicles, renewable system, etc.

In 2016, CSB battery co., Ltd. has been incorporated into Hitachi Chemical group, and changed company name as Hitachi Chemical Energy Technology Co., Ltd.

We will keep our original intention to supply reliable power solutions, and continuous working on wonders, building the future with all our clients in the world.

EVH series



- Characteristics: More than 400 cycles at 100% discharge cycle use
- Application: Specially designed for wheeled riding devices such electric vehicles, golf carts, portable machines, power tools, etc.
- Capacity Range: 15Ah to 39Ah of 12V battery (20hr-rate to 1.75V per cell @25°C (77°F))

EVX series



- Characteristics: More than 400 cycles at 100% discharge cycle use
- Application: Specially designed for wheeled riding devices such electric vehicles, golf carts, portable lighting and measure equipment, camera, etc.
- Capacity Range: 7.2Ah to 75Ah of 12V battery (20hr-rate to 1.75V per cell @25°C (77°F))

GP series



- Characteristics: The widest range of applications with a service life of up to 5 years in standby service.
- Application: CATV, telemeters, emergency lighting equipment, etc.
- Capacity Range: 4.5Ah to 100Ah of 6 or 12V battery(20hr-rate to 1.75V per cell @25°C (77°F))

GPL series



- Characteristics: The widest range of applications with a service life of up to 8 ~ 10 years in standby service.
- Application: CATV, telemeters, communications and electrical equipment, precision instrument backup power, etc.
- Capacity Range: 7.2Ah to 100Ah of 12V battery(20hr-rate to 1.75V per cell @25°C (77°F))

HR series



- Characteristics: Specially design for high efficient discharge application with a service life of up to 5 years in standby service.
- Application: UPS, emergency lighting, fire alarm and security system, etc.
- Capacity Range: 18W/cell to 120W/cell of 12V battery(15 min-rate to 1.67V per cell@25°C (77°F))

HRLseries



- Characteristics: Specially design for high efficient discharge application with a service life of up to 8~10 years in standby service.
- Application: UPS, emergency lighting, fire alarm and security system, etc.
- Capacity Range: 10W/cell to 540W/cell of 6V or 12V(15 min-rate to 1.67V per cell@25°C (77°F))

MSJ series



- Characteristics: Very long service life battery with a service life of up to 20 years in standby service.
- Application: Emergency lighting, switching mode rectifier power supply, back-up power for testing and measuring equipment, etc.
- Capacity Range: 150Ah to 1000Ah of 2V battery(10hr-rate to 1.80V per cell@25°C (77°F))

MSVseries



- Characteristics: Very long service life battery with a service life of up to 15 years in standby service.
- Application: Emergency lighting, switching mode rectifier power supply, back-up power for testing and measuring equipment, etc.
- Capacity Range: 200Ah to 1000Ah of 2V battery(10hr-rate to 1.80V per cell@25°C (77°F))

MUseries



- Characteristics: large capacity battery with a service life of up to 20 years in standby service.
- Application: UPS, telecom system, emergency lighting, power plants and substations, etc.
- Capacity Range: 1000Ah to 1500Ah of 2V battery(10hr-rate to 1.80V per cell@25°C (77°F))

TPL series



- Characteristics: Series battery with front terminal access and space saving design that offer a service life of up to 12 years in standby service.
- Application: UPS, telecom applications (Distributed power, PHS, cellular and broadband), etc.
- Capacity Range: 80Ah to 150Ah of 12V battery (8hr-rate to 1.75V per PCS@25°C (77°F))

UPS series



- Characteristics: the series battery uses the latest wafer-thin plate technology to provide optimum high-rate performance with a design life up to 5 years in standby service.
- Application: UPS, emergency lighting, fire alarm and security system, etc.
- Capacity Range: 240W/battery to 580W/battery of 12V battery (5min-rate to 9.60V per PCS@25°C (77°F))

XHRL series



- Characteristics: Extreme high rate discharge and long life battery with a service life of up to 10 years in standby service.
- Application: UPS, emergency lighting, fire alarm and security system, etc.
- Capacity Range: 360W/cell to 620W/cell of 12V battery (15 min-rate to 1.67V per cell@25°C (77°F))

XTV series



- Characteristics: Specially designs for extreme temperatures (-20°C to 50°C) with a service life of up to 12 years in standby service.
- Application: UPS, emergency lighting, solar cell power generation, etc.
- Capacity Range: 7.2Ah to 110Ah of 12V battery (20hr-rate to 1.75V per cell@25°C (77°F))

EVH Series

Battery Type	Nominal Voltage (V)	Nominal Capacity (Ah)*	Weight (Approx. Kg)	Internal Resistance (Approx. mΩ)	Short Circuit Current (A)	Max. Discharge Current (5 sec) (A)	Dimensions (mm)				Terminal Type	Bolt	Max. Charge Current (A)	Max. Screw Torque Value	
							Overall Height (H)	Container Height (h)	Length (L)	Width (W)				Kgf-cm/lb-in	N-m
EVH12150 x3	12	15	4.60	10.5	--	180	101.8±1.5	97.5±1.0	151.0±2.0	98.0±1.0	F2	Faston Tab 250	4.50	--	--
EVH12240 x2	12	24	7.55	8.6	--	320	170.0±2.0	170.0±2.0	181.0±2.0	76.2±1.0	I1	M5	7.2	59/51	5.73
EVH12390	12	39	11.5	8.9	--	400	178.3±2.0	154.8±2.0	195.6±2.0	130.0±1.5	B5	M6	11.7	138.6/120.3	13.58

- * Nominal Capacity 20hr-rate to 1.75V per cell@25°C (77°F)
- Charging voltage for cycle Use : 2.45±0.05/Cell AT 25°C (77°F) Temp. Coefficient-5.0mV/°C

EVX Series

Battery Type	Nominal Voltage (V)	Nominal Capacity (Ah)*	Weight (Approx. Kg)	Internal Resistance (Approx. mΩ)	Short Circuit Current (A)	Max. Discharge Current (5 sec) (A)	Dimensions (mm)				Terminal Type	Bolt	Max. Charge Current (A)	Max. Screw Torque Value	
							Overall Height (H)	Container Height (h)	Length (L)	Width (W)				Kgf-cm/lb-in	N-m
EVX1272	12	7.2	2.55	23.9	--	100/130	98.6±1.0	94.3±1.0	150.9±2.0	64.8±1.0	F1/F2	Faston Tab 187/250	2.16	--	--
EVX12120	12	12	3.83	15.4	--	150/180	100.3±1.5	94.1±1.0	151.0±2.0	98.0±1.0	F1/F2	Faston Tab 187/250	3.60	--	--
EVX12170	12	17	5.67	13.3	--	230	167.0±2.0	167.0±2.0	181.0±2.0	76.2±1.0	B1/B3	M5	5.10	59/51	5.73
EVX12200	12	20	6.70	12.5	--	230	167.0±2.0	167.0±2.0	181.0±2.0	76.2±1.0	I1	M5	6.00	59/51	5.73
EVX12260	12	26	8.65	9.6	--	350	125.0±1.5	125.0±1.5	166.0±2.0	175.0±2.0	B1/B3/B3B I1	M5	7.80	59/51	5.73
EVX12300	12	30	10.40	7.9	--	400	175.0±2.0	175.0±2.0	166.0±2.0	125.0±1.5	I1	M5	9.00	59/51	5.73
EVX12340	12	34	10.77	9.2	--	400	178.3±2.0	154.8±2.0	195.6±2.0	130.0±1.5	B5	M6	10.20	138.6/120.3	13.58
EVX12400	12	40	13.20	8.2	--	400	170.4±2.0	170.4±2.0	197.0±2.0	165.0±2.0	B8/I2	M5/M6	12.00	59/138.6 51/120.3	5.73/13.58
EVX12520	12	52	18.30	5.2	--	500	219.3±2.5	201.3±2.5	248.0±2.5	138.4±1.5	B4	M6	15.60	138.6/120.3	13.58
EVX12650	12	65	22.20	4.6	--	500	174.9±2.0	174.9±2.0	349.4±2.5	166.0±2.0	B4/I2	M6	19.50	138.6/120.3	13.58
EVX12750	12	75	25.60	4.7	--	500	232.5±2.5	210.5±2.5	277.0±2.5	168.5±2.0	B6	M6	22.50	138.6/120.3	13.58

- * Nominal Capacity 20hr-rate to 1.75V per cell@25°C (77°F)
- Charging voltage for cycle Use : 2.45±0.05/Cell AT 25°C (77°F) Temp. Coefficient-5.0mV/°C

MU Series

Battery Type	Nominal Voltage (V)	Nominal Capacity (Ah)*	Weight (Approx. Kg)	Internal Resistance (Approx. mΩ)	Short Circuit Current (A)	Max. Discharge Current 5 sec (A)	Dimensions (mm)			Terminal Type	Bolt	Max. Charge Current (A)	Max. Screw Torque Value	
							Length(L)	Width (W)	Depth(D)				Kgf-cm/ lbf-in	N-m
MU1000S	2	1000	62.50	0.31	--	6000	303.0±3.0	172.0±3.0	497.0±3.0	I3	M10	300	612/531	60.0
MU1500S	2	1500	91.50	0.31	--	9000	437.0±3.0	172.0±3.0	497.0±3.0	I3	M10	450	612/531	60.0

- * Nominal Capacity 10hr-rate to 1.80V per cell@25°C (77°F)
- Charging voltage for standby Use : 2.23±0.02 V/Cell at 25°C (77°F) ; Temp. Coefficient: -3.3mV/°C

MSV Series

Battery Type	Nominal Voltage (V)	Nominal Capacity (Ah)*	Weight (Approx. Kg)	Internal Resistance (Approx. mΩ)	Short Circuit Current (A)	Max. Discharge Current 5 sec (A)	Dimensions (mm)				Terminal Type	Bolt	Max. Charge Current (A)	Max. Screw Torque Value	
							Overall Height (H)	Container Height (h)	Depth (D)	Width (W)				Kgf-cm/ lbf-in	N-m
MSV200	2	200	13.60	0.59	--	1200	339.0±2.5	331.0±2.5	170.0±2.0	106.0±1.5	I4	M8	60	414/359	40.57
MSV300	2	300	18.20	0.54	--	1800	339.0±2.5	331.0±2.5	170.0±2.0	150.0±1.5	I4	M8	90	414/359	40.57
MSV400	2	415	24.90	0.43	--	2400	339.0±2.5	331.0±2.5	197.0±2.0	170.0±2.0	I4	M8	120	414/359	40.57
MSV500	2	500	31.20	0.39	--	3000	339.0±2.5	331.0±2.5	241.0±2.5	171.0±2.0	I4	M8	150	414/359	40.57
MSV650	2	650	41.40	0.38	--	3900	339.0±2.5	331.0±2.5	307.0±2.5	171.0±2.0	I4	M8	195	414/359	40.57
MSV800	2	800	50.60	0.38	--	4800	339.0±2.5	331.0±2.5	373.0±2.5	174.0±2.0	I4	M8	240	414/359	40.57
MSV1000	2	1000	64.40	0.38	--	6000	339.0±2.5	331.0±2.5	471.0±2.5	171.0±2.0	I4	M8	300	414/359	40.57

- * Nominal Capacity 10hr-rate to 1.80V per cell@25°C (77°F)
- Charging voltage for standby Use : 2.23±0.02 V/Cell at 25°C (77°F) ; Temp. Coefficient: -3.3mV/°C

MSJ Series

Battery Type	Nominal Voltage (V)	Nominal Capacity (Ah)*	Weight (Approx. Kg)	Internal Resistance (Approx. mΩ)	Short Circuit Current (A)	Max. Discharge Current 5 sec (A)	Dimensions (mm)				Terminal Type	Bolt	Max. Charge Current (A)	Max. Screw Torque Value	
							Overall Height (H)	Container Height (h)	Depth (D)	Width (W)				Kgf-cm/ lbf-in	N-m
MSJ150	2	155	12.80	0.54	2848	900	339.0±2.5	331.0±2.5	170.0±2.0	106.0±1.5	I4	M8	45	414/359	40.57
MSJ200	2	205	15.00	0.42	3930	1200	339.0±2.5	331.0±2.5	170.0±2.0	106.0±1.5	I4	M8	60	414/359	40.57
MSJ260	2	260	18.70	0.36	4872	1560	339.0±2.5	331.0±2.5	170.0±2.0	131.0±1.5	I4	M8	78	414/359	40.57
MSJ300	2	305	21.80	0.33	5075	1800	339.0±2.5	331.0±2.5	170.0±2.0	150.0±1.5	I4	M8	90	414/359	40.57
MSJ400	2	439	28.80	0.30	6065	2400	339.0±2.5	331.0±2.5	197.0±2.0	170.0±2.0	I4	M8	120	414/359	40.57
MSJ500	2	510	36.50	0.28	9953	3000	339.0±2.5	331.0±2.5	241.0±2.5	171.0±2.0	I4	M8	150	414/359	40.57
MSJ650	2	660	46.60	0.26	13235	3900	339.0±2.5	331.0±2.5	307.0±2.5	171.0±2.0	I4	M8	195	414/359	40.57
MSJ800	2	870	56.70	0.25	--	4800	339.0±2.5	331.0±2.5	373.0±2.5	174.0±2.0	I4	M8	240	414/359	40.57
MSJ1000	2	1020	72.80	0.28	--	6000	339.0±2.5	331.0±2.5	471.0±2.5	171.0±2.0	I4	M8	300	414/359	40.57

- * Nominal Capacity 10hr-rate to 1.80V per cell@25°C (77°F)
- Charging voltage for standby Use : 2.23±0.02 V/Cell at 25°C (77°F) ; Temp. Coefficient: -3.3mV/°C

HR Series

Battery Type	Nominal Voltage (V)	Nominal Capacity (Wh)*	Weight (Approx. Kg)	Internal Resistance (Approx. mΩ)	Short Circuit Current (A)	Max. Discharge Current 5 sec (A)	Dimensions (mm)				Terminal Type	Bolt	Max. Charge Current (A)	Max. Screw Torque Value	
							Overall Height (H)	Container Height (h)	Length(L)	Width (W)				Kgf-cm/ lbf-in	N-m
HR1218W	12	18	1.53	28.5	--	130	98.6±1.0	94.3±1.0	150.9±2.0	51.0±1.0	F1/F2	Faston Tab 250	1.8	--	--
HR1221W	12	21	1.80	23.0	249	60/90	105.0±1.5	101.7±1.5	90.0±1.0	70.0±1.0	F1/F2	Faston Tab 187/250	2.1	--	--
HR1224W	12	24	1.95	20.6	260	100/130	97.9±1.0	94.3±1.0	151.0±2.0	51.0±1.0	F1/F2	Faston Tab 187/250	2.4	--	--
HR1225W	12	24.5	1.84	24.7	--	130	98.6±1.0	94.3±1.0	150.9±2.0	64.8±1.0	F2	Faston Tab 250	2.5	--	--
HR1227W	12	27	1.97	19.9	424	100/130	105.6±1.5	101.8±1.5	90.0±1.0	70.0±1.0	F1/F2	Faston Tab 187/250	2.7	--	--
HR1234W	12	34	2.50	19.0	349	130	98.6±1.0	94.3±1.0	150.9±2.0	64.8±1.0	F2	Faston Tab 250	3.4	--	--
HR1251W	12	51	3.85	13.6	462	180	100.3±1.5	94.1±1.0	151.0±2.0	98.0±1.0	F2	Faston Tab 250	5.1	--	--
HR1290W	12	90	6.80	9.90	--	300	167.0±2.0	167.0±2.0	181.0±2.0	76.2±1.0	I1	M5	9.0	59/51	5.73
HR12120W	12	120	10.20	8.20	928	225	175.0±2.0	175.0±2.0	166.0±2.0	125.0±1.5	I1	M5	12	59/51	5.73

- * Nominal Capacity 15 min-rate to 1.67V per cell @25°C (77°F)
- Charging voltage for standby Use : 2.275±0.025 V/Cell at 25°C (77°F) ; Temp. Coefficient: -3.3mV/°C

TPL Series

Battery Type	Nominal Voltage (V)	Nominal Capacity (Ah)*	Weight (Approx. Kg)	Internal Resistance (Approx. mΩ)	Short Circuit Current (A)	Max. Discharge Current 5 sec (A)	Dimensions (mm)			Terminal Type	Bolt	Max. Charge Current (A)	Max. Screw Torque Value	
							Overall Height (H)	Length (L)	Width (W)				Kgf-cm/ lbf-in	N-m
TPL12800	12	80	38.30	3.70	2216	800	255.5±2.5	511.6±2.5	110.0±1.5	I2	M6	24.0	138.6/120.3	13.58
TPL12900	12	90	38.30	3.70	2216	800	255.5±2.5	511.6±2.5	110.0±1.5	I2	M6	27.0	138.6/120.3	13.58
TPL121000	12	100	38.30	3.70	2216	800	255.5±2.5	511.6±2.5	110.0±1.5	I2	M6	30.0	138.6/120.3	13.58
TPL121000T	12	100	34.80	4.00	2132	800	280.0±2.5	390.0±2.5	105.0±1.5	I2	M6	30.0	138.6/120.3	13.58
TPL121250A	12	125	44.70	4.50	2327	800	320.3±2.5	547.0±2.5	124.8±1.5	I2	M6	37.5	138.6/120.3	13.58
TPL121350A	12	135	54.80	3.70	2593	800	320.3±2.5	547.0±2.5	124.8±1.5	I2	M6	40.5	138.6/120.3	13.58
TPL121500A	12	159	54.80	3.70	2593	800	320.3±2.5	547.0±2.5	124.8±1.5	I2	M6	45.0	138.6/120.3	13.58

- * Nominal Capacity 8hr-rate to 1.75V per cell @25°C (77°F)
- Float Charge: 2.275±0.025 V/Cell at 25°C (77°F); Temp. Coefficient: -3.3mV/°C

UPS Series

Battery Type	Nominal Voltage (V)	Nominal Capacity (W/PCS)*	Weight (Approx. Kg)	Internal Resistance (Approx. mΩ)	Short Circuit Current (A)	Max. Discharge Current 5 sec (A)	Dimensions (mm)				Terminal Type	Bolt	Max. Charge Current (A)	Max. Screw Torque Value	
							Overall Height (H)	Container Height (h)	Length (L)	Width (W)				Kgf-cm/ lbf-in	N-m
UPS122406	12	240	1.46	33.50	230	100/130	98.6±1.0	94.3±1.0	150.9±2.0	51.0±1.0	F1/F2	Faston Tab 187/250	2.0	--	--
UPS123606	12	360	1.97	20.70	325	100/130	98.6±1.0	94.3±1.0	150.9±2.0	51.0±1.0	F1/F2	Faston Tab 187/250	3.0	--	--
UPS123607	12	360	2.00	20.90	325	100/130	98.6±1.0	94.3±1.0	150.9±2.0	64.8±1.0	F1/F2	Faston Tab 187/250	3.0	--	--
UPS12460	12	460	2.50	16.60	450	130	98.6±1.0	94.3±1.0	150.9±2.0	64.8±1.0	F2	Faston Tab 187/250	3.8	--	--
UPS12580	12	580	2.83	11.80	575	130	98.6±1.0	94.3±1.0	150.9±2.0	64.8±1.0	F2	Faston Tab 187/250	4.8	--	--

- * Nominal Capacity 5 min-rate to 9.6V per PCS @25°C (77°F)
- Charging voltage for standby Use : 2.275±0.025 V/Cell at 25°C (77°F); Temp. Coefficient: -3.3mV/°C

XTV Series

Battery Type	Nominal Voltage (V)	Nominal Capacity (Ah)*	Weight (Approx. Kg)	Internal Resistance (Approx. mΩ)	Short Circuit Current (A)	Max. Discharge Current 5 sec (A)	Dimensions (mm)				Terminal Type	Bolt	Max. Charge Current (A)	Max. Screw Torque Value	
							Overall Height (H)	Container Height (h)	Length (L)	Width (W)				Kgf-cm/ lbf-in	N-m
XTV1272	12	7.2	2.57	20.40	305	130	102.0±1.5	94.3±1.0	150.9±2.0	64.8±1.0	F2	Faston Tab 250	2.16	--	--
XTV12550	12	55	17.90	5.20	1627	300	206.3±2.5	201.3±2.5	228.0±2.5	138.4±1.5	I2	M6	16.5	138.6/120.3	13.58
XTV12800	12	80	25.50	4.70	1917	800	213.5±2.5	210.5±2.5	261.0±2.5	168.5±2.0	I2	M6	24.0	138.6/120.3	13.58
XTV121000	12	100	30.20	4.10	2258	800	213.6±2.5	210.6±2.5	308.7±2.5	169.0±2.0	I2	M6	30.0	138.6/120.3	13.58
XTV121100	12	110	34.20	3.60	2648	800	216.9±2.5	213.9±2.5	343.0±2.5	170.0±2.0	I2	M6	33.0	138.6/120.3	13.58

- * Nominal Capacity 20hr-rate to 1.75V per cell @25°C (77°F)
- Charging voltage for standby Use : 2.275±0.025 V/Cell at 25°C (77°F); Temp. Coefficient: -3.3mV/°C

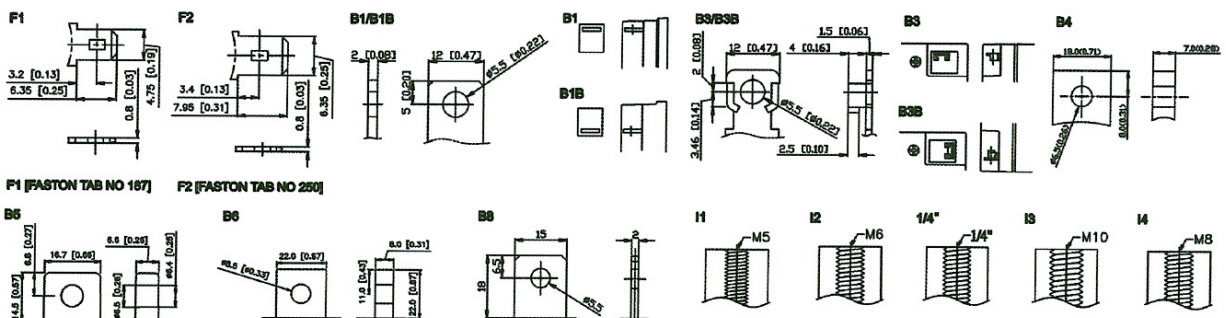
XHRL Series

Battery Type	Nominal Voltage (V)	Nominal Capacity (Weell)*	Weight (Approx. Kg)	Internal Resistance (Approx. mΩ)	Short Circuit Current (A)	Max. Discharge Current 5 sec (A)	Dimensions (mm)				Terminal Type	Bolt	Max. Charge Current (A)	Max. Screw Torque Value	
							Overall Height (H)	Container Height (h)	Length (L)	Width (W)				Kgf-cm/ lbf-in	N-m
XHRL12360W	12	360	28.30	3.10	2551	800	213.5±2.5	210.5±2.5	261.0±2.5	168.5±2.0	I2	M6	36.0	138.6/120.3	13.58
XHRL12410W	12	410	32.60	2.90	3171	800	213.6±2.5	210.6±2.5	308.7±2.5	169.0±2.0	I2	M6	41.0	138.6/120.3	13.58
XHRL12475W	12	475	36.20	2.30	3449	800	216.6±2.5	213.9±2.5	343.0±2.5	170.0±2.0	I2/(1/4")	M6/(1/4")	47.5	138.6/(126) 120.3/(109.4)	13.58/ (12.35)
XHRL12620W	12	620	47.20	2.40	3722	800	275.7±2.5	273.2±2.5	343.0±2.5	170.0±2.0	I2	M6	62.0	138.6/120.3	13.58

- * Nominal Capacity 15 min-rate to 1.67V per cell @25°C (77°F)
- Charging voltage for standby Use : 2.275±0.025 V/Cell at 25°C (77°F); Temp. Coefficient: -3.3mV/°C

All information is subject to change without (prior) notification. Please consult CSB website (www.csb-battery.com) for latest information.

Terminal Type



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