HRL Series

HRL 12330W Datasheet

12V Top Terminal VRLA-AGM

Specifications	
Voltage (Vdc)	12
Nominal Capacity	330W @ 15min-rate (1.67C) 100AH@ 20hour-rate (1.75V)
Watts Per Cell (30-Sec 1.67 VPC @ 25°C)	--
Watts Per Cell (5-Min 1.67 VPC @ 25°)	627
Watts Per Cell (15-Min 1.67 VPC @ 25°)	356
Max Charge Current (A)	33.0A
Max Discharge Current (A)	800
Short Circuit Current (A)	2386
Internal Resistance (mΩ)	Approx. 3.50
Terminal Type	I2 thread lead alloy terminal to accept M6 bolt
Terminal Torque	51.7±10.3 Kgf·cm / 44.9±9.0 Lbf·in / 5.10±1.0 N·m
Container Material	PP (UL 94-HB) & Flame Retardant (94-V0) available upon request
Weight (kg. / lb., Approx.)	29.60 / 65.24
Length (L) (mm / in)	308.7±2.5 / 12.15±0.10
Width (W) (mm / in)	169.0±2.0 / 6.65±0.08
Height (H) (mm / in)	213.6±2.5 / 8.41±0.10
Design Life	Up to 10 Years in Standby Service at 25°C Eurobat (20°C): >12 Years Very Long Life
Operating Temperature	Nominal: 25°C (77°F) Discharge: -15°C - 50°C (5°F-122°F) Charge/Storage: -15°C - 40°C (5°F – 104°F)
Float Charging Voltage	13.5 - 13.8 Vdc/battery 25°C (77°F)
Eq. Charging Voltage	14.4 - 15.0 Vdc/battery 25°C (77°F)
Self-Discharge	Less than 10% after 90 days, can be stored up to 6 months at 25°C (77°F); Fully recharging is required before usage, and charged sooner if stored at higher temperature than 25°C (77°F).

Valve Regulated Lead Acid (VRLA) Battery

Maintenance-Free, Absorbent Glass Mat (AGM) Technology for Efficient Gas Recombination of up to 99%

Pure Lead Construction and Proprietary Elements

Designed for High-Rate UPS, Float Service Standby Power Applications

Built in Accordance with IEC 60896-21/22:2004 and UL1989 Recognized (MH14533)

MH14533

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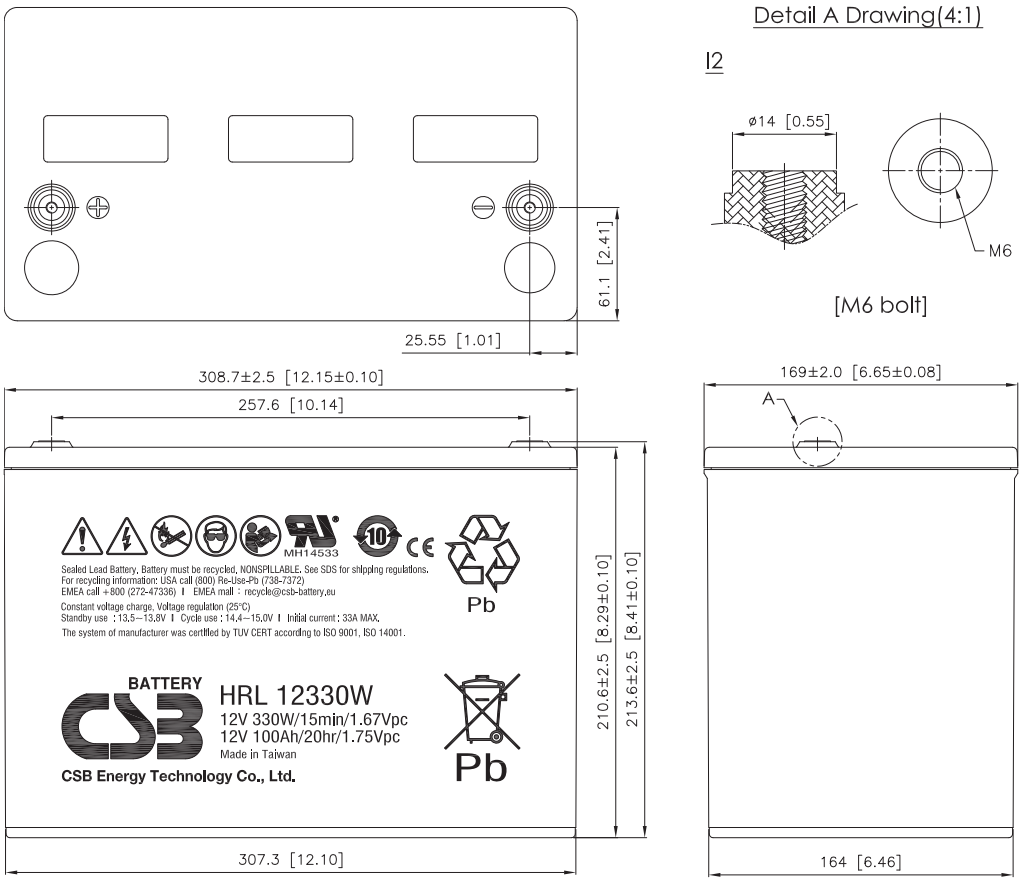
Constant Current Discharge Characteristics Unit: A (25°C, 77°F)												
F.V/Time	**2MIN**	**5MIN**	**10MIN**	**15MIN**	**20MIN**	**30MIN**	**45MIN**	**60MIN**	**90MIN**	**5HR**	**10HR**	**20HR**
10.02V (1.67 VPC)	482	369	256	196	158	117	85.1	67.9	49.4	18.6	9.91	5.12
10.50V (1.75 VPC)	405	317	230	181	149	112	82.6	66.4	48.9	18.2	9.74	5.06
10.80V (1.80 VPC)	337	273	206	168	139	106	79.1	64.1	47.7	17.8	9.51	4.97

Constant Power Discharge Characteristics Unit: W (25°C, 77°F)												
F.V/Time	**2MIN**	**5MIN**	**10MIN**	**15MIN**	**20MIN**	**30MIN**	**45MIN**	**60MIN**	**90MIN**	**5HR**	**10HR**	**20HR**
10.02V (1.67 VPC)	4397	3761	2737	2131	1738	1304	965	779	576	216	116	61.0
10.50V (1.75 VPC)	4043	3300	2485	2009	1656	1260	941	764	571	214	115	60.5
10.80V (1.80 VPC)	3660	2993	2276	1883	1564	1204	907	742	559	210	113	59.6