

BATTERY LOAD UNITS – BLU SERIES

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The Battery Load Units – BLU series of devices are stand-alone or a PC-controlled battery capacity test instruments, based on the state-of-the-art technology. Their design is deploying the most advanced power electronics solutions with coolers and fans integrated into the device.

The BLU series devices are lightweight and developed to meet a customer's wide ranging test procedure requirements (standardized as well as customized). Using a BLU device, the capacity test is performed in an accurate, user-friendly way in accordance with the battery testing standards (IEEE 450-2010 / 1188-2005 / 1106-2005, IEC 60896-11/22 and other relevant standards).

The capacity test/discharge can be performed at constant current, constant power, constant resistance or in accordance with a pre-selected load profile. The discharge test can be conducted even in a case a battery remains connected to the load – by measuring the load current during the process.

BLU-A SERIES

BLU100A



- weight – 12,8 kg (28 lb)
- discharge power – up to 14,2 kW
- discharge current – up to 160 A
- applicable to 5,25 – 300 V DC battery voltages

BLU200A



- weight – 14,5 kg (32 lbs)
- discharge power – up to 19,7 kW
- discharge current – up to 240 A
- applicable to 5,25 – 300 V DC battery voltages

BLU340A



- weight – 20,6 kg (45.4 lb)
- discharge power – up to 28,4 kW
- discharge current – up to 160 A
- applicable to 5,25 – 300 V DC battery voltages

BLU-T

BLU110T



- weight – 12,8 kg (28.2 lb)
- discharge power – up to 8,5 kW
- discharge current – up to 150 A
- applicable to 5,25 – 70,5 V DC battery voltages

BLU220T



- weight – 15,1 kg (33 lb)
- discharge power – up to 19,2 kW
- discharge current – up to 340 A
- applicable to 5,25 – 70,5 V DC battery voltages

BLU-V

BLU360V



- weight – 20,6 kg (45.4 lb)
- discharge power – up to 28,4 kW
- discharge current – up to 160 A
- applicable to 5,25 – 500 V DC battery voltages

The table below presents the maximal currents for various battery voltage ranges for the required minimal cell voltage of 1,75 V. In addition, the maximal currents available if using **BXL** Extra Load Units series devices are also presented in the table.

		Maximum discharge current (A)								
Battery voltage (V)		BLU100A	BLU200A	BLU340A	BXL-A	BLU110T	BLU220T	BXL-T	BLU360V	BXL-V
Nom.	Min/Max									
6	5,25	40	60	50	59	100	100	74	50	11
	7,05				80			100		15
12	10,5	80	120	100	119	150	200	156	100	28
	14,1				160			210		35
24	21,0	160	240	160	186	150	340	230	160	55
	28,2				250			310		75
48	42,0	160	240	160	186	150	340	230	160	115
	56,4				250			310		155
60	52,5	120	210	160	81	120	270	185	160	141
	70,5				110			250		190
110	96,3	110	130	160	119	-	-	-	160	96
	129,3				160					130
120	105,0	100	140	150	134	-	-	-	150	107
	141,0				180					145
220	192,5	55	75	110	67	-	-	-	110	85
	258,5				90					115
240	210,0	50	70	100	67	-	-	-	100	93
	282,0				90					125
480	300	-	-	-	-	-	-	-	65	34
	410									46
	410								55	46
	500									55
Weight (kg / lbs)		12,8 / 28	14,5 / 32	20,6 / 45.4	12,5 / 28	12,8 / 28.2	15,1 / 33	12,5 / 28	20,6 / 45.4	16 / 35
Max Power (kW)		14,2	19,7	28,4	25,4	8,5	19,2	17,5	28,4	35