

Overview and Comparison of *Lumi-Con's* Bike-Energy-Harvester

		USB-D	USB-P5(C,X)	USB-P12	USB-PM	USB-PMX	Conditons - Notes
USB-Output		USB-A	USB-A	USB-A	USB-C USB-Micro	USB-C USB-Micro	
Output current	A	1	1,5	1,5	1,5	1,5	max. output current, 5V
Overload shut down current	A	1,2	1,7	1,7	1,7	1,7	Typical
Dynamo-Input							
Dynamo-Current	A	0,35/0,45	0,8/1	0,8/1	0,8/1	0,8/1	Typ./max, 18-30km/h 1), P5CX: int. switch for dynamo shut down
Dynamo-electrical power (typ./max.)	W	2,8/3,8	6,4/8,4	6,4/8,4	3,2/4,2	6,4/8,4	2) voltage of battery 8V/8,4V (PM 4/4,2V)
Load time to load battery to 80%	h	7	3,1	3,1	3,1	1,5	3) typ., no output current
Mains Charger Input		Power-St. 5,5mm	USB-Micro USB-C	Power-St. 5,5mm	Dynamo- Input	Dynamo- Input	mains charger and cable included for USB-P5(C), -P12, -D
Load current (typ.)	A	0,4	1	2	0,5	0,5	1)
Load current (typ.)	A	0,4	1,5 / 5V	1,3 / 12V	0,5 / 12V	0,5 / 12V	1) DC, for PM: 12V AC (50Hz)
Load power (typ.)	W	3,2	7	15	2	4	2) for a battery voltage of 8V (PM 4V)
Specification of mains charger	V/A	12/1	5/2	12/2	12/0.7	12/0.7	not included for PM (12V AC charger)
Load time to load battery to 80%	h	6	4	2	6	2	Charging from 0% → 80% battery capacitance
Battery Power							
Number of batteries		2	2	2	1	2	
Standard cells	Ah	2 x 2.5	2 x 3.5	2 x 3.5	3,5	2 x 1.2	
Standard cells – total power	Wh	≈20	≈30	≈30	≈15	≈10	at a battery voltage of 8,4V, for PM 4.2V

All values are mean values for delivered power supplies and USB cables. 1) DC current into battery, depending on battery voltage 2) DC power into battery, max. battery voltage 8.4V (PM 4.2V)

USB-D: Good cost/performance ratio for medium requirements (e.g. for low power requirements of smartphones) and preferred overnight charging.

USB-P5(C,X): Very high load currents from hub dynamo (up to 1A, at “normal” speeds >800mA) and medium load current from mains charger (5V/2A). Charging possible with available USB-charger or power packs (5V/2A, Lumi-Con guarantees function only with supplied charger).

USB-P12: Very high load currents from hub dynamo (up to 1A, at “normal” speeds >800mA) and high load current from mains charger (12V/2A). Charging from mains within approx. 1.5h to 80%.

USB-PM(X): New elegant, compact and waterproof design. High charging current from dynamo as for P5 and P12. Charging from mains possible with optional mains charger. Please note the lower battery capacitance at the PMX Harvester.

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