

Overview of Lumi-Con's Bike-Energy-Harvester

		USB-D	USB-P5	USB-P12	USB-PM	Conditions - Notes
USB-Output		USB-A	USB-A	USB-A	USB-C USB-Micro	
Output current	A	1	1,5	1,5	1,5	max. output current, 5V
Overload shut down current	A	1,2	1,7	1,7	1,7	Typ.
Dynamo-Input						
Dynamo-Current	A	0,35/0,45	0,8/1	0,8/1	0,8/1	1) typ./max, 18-30km/h
Dynamo-electrical power (typ./max.)	W	2,8/3,8	6,4/8,4	6,4/8,4	3,2/4,2	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	3) typ., no output current
Mains Charger Input		Power-St. 5,5mm	USB- Micro	Power-St. 5,5mm	Dynamo- AC-Input	mains charger and cable included for USB-P5, - P12, -D, optional mains charger 12Vac for PM
Load current (typ.)	A	0,4	0,5	1,5...2	0,5	1)
Load current (typ.)	A	0,4	1...1,5	1,3	0,5	1)
Load power (typ.)	W	3,2	4	12	2	2) for a battery voltage of 8V (PM 4V)
Specification of mains charger	V	12V/1A	5V/2A	12V/2A	12V/0.7A	not included for PM
Load time to load battery to 80%	h	6	4	<1,5	5	3)
Battery Power						2 cells 8.4V , 1 cell 4.2V for PM
Standard cells	Ah	2.5	2.5	2.5	3,5	
Standard cells – total power	Wh	21	21	21	≈15	at a battery voltage of 8,4V, for PM 4.2V
Extended cells	Ah	3.5	3.5	3.5		
Extended cells – total power	Wh	≈30	≈30	≈30		at a battery voltage of 8,4V, for PM 4.2V

All values are typical values for supplied mains charger and cables, if not else noted

1) Battery DC current, depending on battery voltage

2) Power into battery, max. battery voltage 8.4V

3) 0 → 80% battery charge

USB-D

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

USB-P5

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

New elegant, compact and waterproof design. High charging current from dynamo as for P5 and P12. Charging from mains possible.

USB-H

Set for removable mounting, for all version available.

USB-E

Higher battery capacity (2 x 3.5Ah), for all version available.

Accessories

Dynamo connector (Shimano), power connector 5.5mm (with/without 1m cable), USB-cable, mounting material, replacement battery (see also Data sheet USB-Zub and homepage http://www.lumi-con.de/prod_USB_ger.html).

The information herein is given to describe certain components and shall not be considered as warranted characteristics.

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