

Battery Size VS Kodak Inverter Size

Careful attention to detail must be used when designing battery systems. Batteries have limits to how much current can safely be used without causing excessive wear and tear or damage.

Having a battery bank that is too small for the inverter rating can lead to several issues.

- Unexpected system shutdowns.
- Damage to sensitive loads.
- Damage to system equipment.
- System not working totally.
- System not meeting expectations.
- Shortened lifespan of equipment.
- **Warranty void (batteries used outside limits)**

There may be a situation where a smaller battery bank is practical. This is possible in some cases; we recommend you contact Segen Solar technical support for advice on such systems to ensure suitability.

The table below compares the power requirements of the various inverter models with suitably sized and compatible battery banks. This table shows the recommended number of batteries to get the full output rating of the inverter in a back-up or off-grid situation.

BL3.6 Kodak battery					
Inverter/Charger Model	Inverter continuous watts	Inverter peak VA for 1s	Recommended battery modules	Battery total continuous discharge rating in watts	Battery peak discharge watt rating
Kodak OG 5.48	5000	10000	1	5000	5500
Kodak OG-PLUS 5.48	5000	10000	1	5000	5500
Kodak OGS5.6	5600	11200	1	5000	5500
Kodak OG-PLUS 6.2	6200	12400	1	5000	5500
Kodak OG-7.2	7200	15000	2	10000	11000
Kodak OG-10	10000	20000	2	10000	11000

Kodak FL5.2					
Inverter/Charger Model	Inverter continuous watts	Inverter peak VA	Recommended battery modules	Battery total continuous discharge rating in watts	Battery peak discharge watt rating
Kodak OG 5.48	3000	6000	1	5120	6000
Kodak OG-PLUS 5.48	5000	10000	1	5120	6000
Kodak OGS5.6	5000	10000	1	5120	6000
Kodak OG-PLUS 6.2	5000	10000	1	5120	6000
Kodak OG-7.2	5000	10000	2	10240	12000
Kodak OG-10	7200	15000	2	10240	12000

US2000C Pylontech battery					
Inverter/Charger Model	Inverter continuous watts	Inverter peak VA for 1s	Recommended battery modules	Battery total continuous discharge rating in watts	Battery peak discharge watt rating
Kodak OG 5.48	5000	10000	4	4800	9600
Kodak OGX 5.48	5000	10000	4	4800	9600
Kodak OG-PLUS 5.48	5000	10000	4	4800	9600
Kodak OGS5.6	5600	11200	4	4800	9600
Kodak OG-PLUS 6.2	6200	12400	5	6000	12000
Kodak OG-7.2	7200	15000	6	7200	14400
Kodak OG-10	10000	20000	8	9600	19200

US3000C Pylontech battery					
Inverter/Charger Model	Inverter continuous watts	Inverter peak VA for 1s	Recommended battery modules	Battery total continuous discharge rating in watts	Battery peak discharge watt rating
Kodak OG 5.48	5000	10000	3	5328	10656
Kodak OG-PLUS 5.48	5000	10000	3	5328	10656
Kodak OGS 5.6	5600	11200	3	5328	10656
Kodak OG-PLUS 6.2	6200	12400	4	7104	14208
Kodak OG-7.2	7200	15000	4	7104	14208
Kodak OG 10	10000	20000	6	10656	21312

UP5000 Pylontech battery					
Inverter/Charger Model	Inverter continuous watts	Inverter peak VA for 1s	Recommended battery modules	Battery total continuous discharge rating in watts	Battery peak discharge watt rating
Kodak OG 5.48	5000	10000	2	4800	7200
Kodak OG-PLUS 5.48	5000	10000	2	4800	7200
Kodak OGS5.6	5600	11200	2	4800	7200
Kodak OG-PLUS 6.2	6200	12400	2	4800	7200
Kodak OG-7.2	7200	15000	3	7200	10800
Kodak OG-10	10000	20000	4	9600	14400

Freedom Lite Home 5/4-N					
Inverter/Charger Model	Inverter continuous watts	Inverter peak VA	Recommended battery modules	Battery total continuous discharge rating in watts	Battery peak discharge watt rating
Kodak OG-PLUS3.48-RM	3000	6000	1	5200	10400
Kodak OG 5.48	5000	10000	1	5200	10400
Kodak OG-PLUS 5.48	5000	10000	1	5200	10400
Kodak OG-PLUS5.48-RM	5000	10000	1	5200	10400
Kodak OGX5.48a	5000	10000	1	5200	10400
Kodak OG-7.2	7200	15000	1*	5200	10400

*Note: For inverters rated higher than 5kw the Home 10/8 or 15/12 is recommended as a minimum. These are very high current batteries, although they can support large inverters remember to consider the storage capacity as well.

GITER-2500-24					
Inverter/Charger Model	Inverter continuous watts	Inverter peak VA	Recommended battery modules	Battery total continuous discharge rating in watts	Battery peak discharge watt rating
Kodak OG 1.24	1575	3000	2	2400	2880
Kodak OG 3.24	3150	6000	3	3600	4320
Kodak OG-PLUS 3.24	3150	6000	3	3600	4320
Kodak OG 3.6	3780	7500	4	4800	5760

GITER-2500-48					
Inverter/Charger Model	Inverter continuous watts	Inverter peak VA	Recommended battery modules	Battery total continuous discharge rating in watts	Battery peak discharge watt rating
Kodak OG-PLUS3.48-RM	3000	6000	3	3600	5040
Kodak OG 5.48	5000	10000	4	4800	6720
Kodak OGX 5.48	5000	10000	4	4800	6720
Kodak OG-PLUS 5.48	5000	10000	4	4800	6720
Kodak OG-PLUS5.48-RM	5000	10000	4	4800	6720
Kodak OGX5.48a	5000	10000	4	4800	6720
Kodak OG-7.2	7200	15000	6	7200	10080

Giter 2.56 24V					
Inverter/Charger Model	Inverter continuous watts	Inverter peak VA	Recommended battery modules	Battery total continuous discharge rating in watts	Battery peak discharge watt rating
Kodak OG 3.24	3000	6000	3	3600	5040
Kodak OG Plus 3.24	3000	6000	3	3600	5040

Giter 2.56 48V					
Inverter/Charger Model	Inverter continuous watts	Inverter peak VA	Recommended battery modules	Battery total continuous discharge rating in watts	Battery peak discharge watt rating
Kodak OG 5.48	5000	10000	4	4800	5760
Kodak OG Plus 5.48	5000	10000	4	4800	5760
Kodak OGX5.48a	5000	10000	4	4800	5760
Kodak OG-7.2	7200	15000	6	7200	8640

UP2500 Pylontech					
Inverter/Charger Model	Inverter continuous watts	Inverter peak VA	Recommended battery modules	Battery total continuous discharge rating in watts	Battery peak discharge watt rating
Kodak OG 3.24	3000	6000	2	2688	5328
Kodak OG Plus 3.24	3000	6000	2	2688	5328

Hubble Lithium with Kodak – BMS compatible with cloudlink link :

<https://portal.segensolar.co.za/nav/pv/-brand-hubble-lithium/-part-HUB-WEB-LINK>

User defined settings:

Model	Voltage	Bulk/Equalised (Vdc)	Float Voltage (Vdc)	Cutoff Voltage (Vdc)	Max Discharge Current(A)	Inverter
AM-2	48V	53.8	53.8	44	100A	OG-7.2, OG-10 , OG5.48, OGPLUS5.48 , OGS5.6
AM-4	24V	29	29	23.8	100A	OG-1.24, OG3.24, OG-PLUS3.24
AM-5	48V	55.2	55.2	47	100A	OG-7.2, OG-10 , OG5.48, OGPLUS5.48 , OGS5.6, OG6.2
AM-10	48V	55.2	55.2	47	150A	OG-7.2, OG-10 , OG5.48, OGPLUS5.48 , OGS5.6, OG6.2

Revov Batteries with Kodak – user defined settings :

<https://portal.segensolar.co.za/reseller/docs/Kodak%20App%20Note.jpg>