

BYD Battery-Box Premium LVL Minimum Configuration List

Version 1.3



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Disclaimer

Information in this document is subject to change without notice. Every effort has been made to make this document complete, accurate, and up-to-date. However, BYD may need to make some improvements under certain circumstances without advance notice. Please take the latest version of this document at our websites into account.



1. Minimum Configuration List On Grid Single Phase

BYD Battery-Box Premium	Minimum Configuration (System Numbers)	Compatible Inverter Model	Compatible Inverter Brand
LVL 15.4	≥ 1	SI 4.4M	SMA
	≥ 1	SI 6.0H	
	≥ 1	SI 8.0H	
	≥ 1	Multiplus 48/3000/35	Victron
	≥ 1	Multiplus 48/5000/70	
	≥ 1	Multigrid 48/3000/35	
	≥ 1	Quattro 48/5000/70-100/100	
	≥ 1	Quattro 48/8000/110-100/100	
	≥ 1	Quattro 48/10000/140- 100/100	
	≥ 1	Quattro 48/15000/200- 100/100	
	≥ 1	Easysolar 48/3000/35-50 MPPT150/70	
	≥ 1	Easysolar 48/5000/70-100 MPPT150/100	
	≥ 1	SPMC480-AU	Selectronic
	≥ 1	SPMC481-AU	
	≥ 1	SPMC482-AU	
	≥ 1	XTS1400-48	Studer
	≥ 1	XTM2600-48	
	≥ 1	XTM4000-48	
	≥ 1	XTH6000-48	
	≥ 1	XTH8000-48	
≥ 1	VT-65		
≥ 1	VT-80		
≥ 1	VS-70		
≥ 1	VS-120		

2. Minimum Configuration List On Grid Single Phase With Full Power Back Up

BYD Battery-Box Premium	Minimum Configuration (System Numbers)	Compatible Inverter Model	Compatible Inverter Brand
LVL 15.4	≥ 1	SI 4.4M	SMA
	≥ 1	SI 6.0H	
	≥ 1	SI 8.0H	
	≥ 1	Multiplus 48/3000/35	Victron
	≥ 1	Multiplus 48/5000/70	
	≥ 1	Multigrid 48/3000/35	
	≥ 1	Quattro 48/5000/70-100/100	
	≥ 1	Quattro 48/8000/110-100/100	
	≥ 1	Quattro 48/10000/140- 100/100	
	≥ 2	Quattro 48/15000/200- 100/100	
	≥ 1	Easysolar 48/3000/35-50 MPPT150/70	
	≥ 1	Easysolar 48/5000/70-100 MPPT150/100	
	≥ 1	SPMC480-AU	Selectronic
	≥ 1	SPMC481-AU	
	≥ 1	SPMC482-AU	
	≥ 1	XTS1400-48	Studer
	≥ 1	XTM2600-48	
	≥ 1	XTM4000-48	
	≥ 1	XTH6000-48	
	≥ 1	XTH8000-48	
≥ 1	VT-65		
≥ 1	VT-80		
≥ 1	VS-70		
≥ 1	VS-120		

3. Minimum Configuration List Off Grid Single Phase

BYD Battery-Box Premium	Minimum Configuration (System Numbers)	Compatible Inverter Model	Compatible Inverter Brand
LVL 15.4	≥ 1	SI 4.4M	SMA
	≥ 1	SI 6.0H	
	≥ 1	SI 8.0H	
	≥ 1	Multiplus 48/3000/35	Victron
	≥ 1	Multiplus 48/5000/70	
	≥ 1	Multigrid 48/3000/35	
	≥ 1	Quattro 48/5000/70-100/100	
	≥ 1	Quattro 48/8000/110-100/100	
	≥ 1	Quattro 48/10000/140- 100/100	
	≥ 2	Quattro 48/15000/200- 100/100	
	≥ 1	Easysolar 48/3000/35-50 MPPT150/70	
	≥ 1	Easysolar 48/5000/70-100 MPPT150/100	
	≥ 1	SPMC480-AU	Selectronic
	≥ 1	SPMC481-AU	
	≥ 1	SPMC482-AU	
	≥ 1	XTS1400-48	Studer
	≥ 1	XTM2600-48	
	≥ 1	XTM4000-48	
	≥ 1	XTH6000-48	
	≥ 1	XTH8000-48	
≥ 1	VT-65		
≥ 1	VT-80		
≥ 1	VS-70		
≥ 1	VS-120		



4. Minimum Configuration List On Grid Three Phase

BYD Battery-Box Premium	Minimum Configuration (System Numbers)	Compatible Inverter Model	Compatible Inverter Brand
LVL 15.4	≥ 1	SI 4.4M	SMA
	≥ 1	SI 6.0H	
	≥ 1	SI 8.0H	
	≥ 1	Multiplus 48/3000/35	Victron
	≥ 1	Multiplus 48/5000/70	
	≥ 1	Multigrid 48/3000/35	
	≥ 1	Quattro 48/5000/70-100/100	
	≥ 1	Quattro 48/8000/110-100/100	
	≥ 1	Quattro 48/10000/140- 100/100	
	≥ 1	Quattro 48/15000/200- 100/100	
	≥ 1	Easysolar 48/3000/35-50 MPPT150/70	
	≥ 1	Easysolar 48/5000/70-100 MPPT150/100	
	≥ 1	SPMC480-AU	Selectronic
	≥ 1	SPMC481-AU	
	≥ 1	SPMC482-AU	
	≥ 1	XTS1400-48	Studer
	≥ 1	XTM2600-48	
	≥ 1	XTM4000-48	
	≥ 1	XTH6000-48	
	≥ 1	XTH8000-48	
≥ 1	VT-65		
≥ 1	VT-80		
≥ 1	VS-70		
≥ 1	VS-120		



5. Minimum Configuration List On Grid Three Phase with Full Back Up Power

BYD Battery-Box Premium	Minimum Configuration (System Numbers)	Compatible Inverter Model	Compatible Inverter Brand
LVL 15.4	≥ 2	SI 4.4M	SMA
	≥ 3	SI 6.0H	
	≥ 3	SI 8.0H	
	≥ 2	Multiplus 48/3000/35	Victron
	≥ 2	Multiplus 48/5000/70	
	≥ 2	Multigrid 48/3000/35	
	≥ 2	Quattro 48/5000/70-100/100	
	≥ 3	Quattro 48/8000/110-100/100	
	≥ 4	Quattro 48/10000/140- 100/100	
	≥ 6	Quattro 48/15000/200- 100/100	
	≥ 1	Easysolar 48/3000/35-50 MPPT150/70	
	≥ 2	Easysolar 48/5000/70-100 MPPT150/100	
	≥ 2	SPMC480-AU	Selectronic
	≥ 2	SPMC481-AU	
	≥ 3	SPMC482-AU	
	≥ 1	XTS1400-48	Studer
	≥ 1	XTM2600-48	
	≥ 1	XTM4000-48	
	≥ 2	XTH6000-48	
	≥ 2	XTH8000-48	
	≥ 1	VT-65	
	≥ 1	VT-80	
	≥ 1	VS-70	
≥ 1	VS-120		

6. Minimum Configuration List Off Grid Three Phase

BYD Battery-Box Premium	Minimum Configuration for Typical Power Use (System Numbers)	Minimum Configuration for Inrush Power Use (System Numbers)	Compatible Inverter Model	Remarks for Inrush Power	Compatible Inverter Brand
LVL 15.4	≥1	≥2	SI 4.4M	5.5kw 3 seconds per inverter	SMA
	≥2	≥3	SI 6.0H	11kw 3 seconds per inverter	
	≥2	≥3	SI 8.0H		
	≥1	≥2	Multiplus 48/3000/35	6kw 5 seconds per inverter	Victron
	≥2	≥2	Multiplus 48/5000/70	10kw 5 seconds per inverter	
	≥1	≥2	Multigrid 48/3000/35	6kw 5 seconds per inverter	
	≥2	≥2	Quattro 48/5000/70-100/100	10kw 5 seconds per inverter	
	≥2	≥3	Quattro 48/8000/110-100/100	16kw 5 seconds per inverter	
	≥3	≥4	Quattro 48/10000/140- 100/100	20kw 5 seconds per inverter	
	≥4	≥6	Quattro 48/15000/200- 100/100	25kw 5 seconds per inverter	
	≥1	≥1	Easysolar 48/3000/35-50 MPPT150/70	6kw 5 seconds per inverter	Victron
	≥2	≥2	Easysolar 48/5000/70-100 MPPT150/100	10kw 5 seconds per inverter	
	≥1	≥2	SPMC480-AU	6kw 60 seconds per inverter	Selectronic
	≥1	≥2	SPMC481-AU	12kw 30 seconds per inverter	
	≥2	≥3	SPMC482-AU	18kw 30 seconds per inverter	
	≥1	≥1	XTS1400-48	2.8kVA 5 seconds per inverter	Studer
	≥1	≥1	XTM2600-48	6.5KVA 5 seconds per inverter	
	≥1	≥2	XTM4000-48	10.5KVA 5 seconds per inverter	
	≥2	≥3	XTH6000-48	15 KVA 5 seconds per inverter	
	≥2	≥4	XTH8000-48	21 KVA 5 seconds per inverter	
≥1	≥1	VT-65			
≥1	≥1	VT-80			
≥1	≥1	VS-70			
≥1	≥2	VS-120			

Notice:

1. Inrush Power: Each Inverter has their Inrush power for off grid applications, please make sure to consult with inverter brands for the right value of correspondences.
2. Maximum 64 systems in parallel connection.
3. With SMA, Battery Firmware: BMU ≥ V1.7, BMS ≥ V1.3; inverter firmware ≥ 1.3.1R.
4. With Victron, Battery firmware: BMU ≥ V1.7, BMS ≥ V1.3; inverter firmware ≥ V2.52.
5. With Studer, Battery firmware: BMU ≥ V1.9, BMS ≥ V1.3; inverter firmware ≥ R664.



Contact Information

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