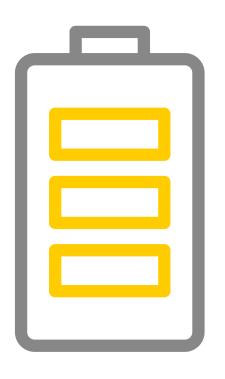
STORAGE SYSTEMS



RESIDENTIAL COMMERCIAL EMOBILITY



⊖ ENPHASE.





manuracturei	'						
Storage inver	ter type	Enphase Energy AC Storage System 3T	Enphase Energy AC Storage System 10T	ABB REACT: 2-UNO-3.6-TL/ 2-UNO-5.0-TL*	Hyt 3.0-3-5/4.0-		
Max. PV syste	em size (kWp)	AC: no lir	nitations	DC: 5.0 / 6.0 AC: no limitations	DC: 5.0 / AC: no lin		
	1	•		•	0		
AC phases	3			0			
Surge	AC		-	-	-		
Protection Device	DC		-	-	type 1 -	- 2 opt.	
Bat	AC (BatInv)			0			
coupling	DC (Hybrid)			•			
Bat. charging PV inverter (A				0			
Manufacture	rstorage	⊖ ENF	PHASE.	FIMER	B	פֿי	
Storage type		AC Stora <u>c</u>	ge System	ABB (integrated)	B-Box HVM 8.3 to 22.1	B-Box HVC 7.8 to 23.5***	
Max. power charge / disch	narge (kW)	per 1.28	per 3.84	1.6 to 4.8* / 2.0 to 5.0*	3.0 to 5.0	3.0 to 5.0	
Usable capac	ity (kWh)	per 3.5	per 10.5	4.0 to 12.0	8.3 to 22.1	7.8 to 23.5	
Expandable / from commiss	Time window sioning	unlin	nited	unlimited	unlimited	expected unlimited	
Emergency po (separate AC o		(•			
Battery backu (backup conno i.n. transfer sv	ection inverter,	(0)	
Full battery b (automatic tra	ackup ansfer switch)	(0	with Enwited	Backup Box	
Active PV-mo backup mode		(•	•		
System inform	nations	module inverte 1-/3-phase AC- storage systen accessories are data acquisitio	-coupled n, additional e required for	1-phase DC coupled storage system; Connection of the heat pump via potential-free switching contact	3-phase DC coupled storage system; AC coupling add		
Solutions for storage syste configuration	em	1-/3-phase AC storage systen number of micr	n with suitable	1-phase hybrid device with additional PV inverter via AC coupling	3-phase hybrid device with additional PV inverter via AC coupling		

^{*}Limited to 4,6 kW in single-phase operation in Germany (VDE-AR-N 4105), // **With suitable PV inverter // *** Release according to deadline manufacturer / Depending on the country settings, there may be limitations on the AC connection power. // All data under reservation according the manufacturer's approval.

Observe the notes at the end of the document.



Storage inver	ter type	_	PRIMO GEN24 3.0 / 3.6 / 4.0 / 4.6 not GER) / 6.0 (not	•	SYMO GEN24 3.0 / 4.0 / 5.0 PLUS***		SYMO GEN24 6.0 / 8.0 / 10.0 P			
Max. PV syste	em size (kWp)		DC: 4.5 to 6.9 AC: no limitations		DC: 4.5 to 15.0 AC: no limitations					
	1		•		0					
AC phases	3		\circ			(•			
Surge	AC		-				-			
Protection Device	DC		type 1 + 2 opt.			type 1	I + 2 opt.			
Bat	AC (BatInv)						•			
coupling	DC (Hybrid)		•			ı	•			
Bat. charging PV inverter (A			•				•			
Manufacture	r storage		BAD		® LG Energy S			(b) LG Energy Solution		
Storage type		B-Box HVS 5.1 to 7.7	B-Box HVC 10.4 to 18.3***	B-Box HVM 11 to 19.3	B-Box HVS 5.1 to 10.2	B-Box HVC 10.4 to 23.5***	B-Box HVM 11 to 22.1	RESU FLEX 8.6 to 17.2		
Max. power charge / disch	narge (kW)	3.2 to 6.3*	3.2 to 6.3*	3.2 to 6.3*	3.1 to 9.0	3.1 to 9.0	3.1 to 9.0	4.3 to 8.5		
Usable capac	ity (kWh)	5.1 to 7.7	10.4 to 18.3	11.0 to 19.3	5.1 to 30.6	10.4 to 23.5	11.0 to 57.9	8.6 to 34.4		
Expandable / from commis	Time window sioning	unlimited	expected unlimited	unlimited	unlimited	expected unlimited	unlimited	expected unlimited		
Emergency po (separate AC		1	phase to PV-poin	t		1-phase	to PV-Point			
Battery backu (backup conne i.n. transfer sv	ection inverter,		0				0			
Full battery b	ackup ansfer switch)	Backup Box (must be assemble	d by yourself	0		with Enwitec Backup Box			
Active PV-mo backup mode			•				•			
System inform	nations	1-phase DC coupled storage system; Connection of heat pump via contact Digital load management. For power classes 5.0 and 6.0 kW no limitation to 4.6 kVA by selection VDE-AR-N 4105, therefore not applicable in GER.				3-phase DC coupled storage system; Substitute current function only partially usable; Connection of heat pump via contact Digital load				
Solutions for storage syste configuration	em	1-phase hybrid d via AC coupling	evice with additior	nal PV inverter	3-phase hybrid device with high charging power and additional PV inverter via AC coupling					

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Storage inver	ter type		GW-EM/ES Hybrid (only EM)/ 3648/ 5	048*	GW S	GW S-BP 3600 / 5000* Retrofit			
Max. PV syste	em size (kWp)		DC: 3.9 to 6.5 AC: no limitations		AC: no limitations				
05	1		•			•			
AC phases	3		\bigcirc			0			
Surge	AC		-			-			
Protection Device	DC		-			-			
Bat	AC (BatInv)		\circ			•			
coupling	DC (Hybrid)		•			\circ			
Bat. charging PV inverter (A			•			•			
Manufacture	rstorage	(b) LG Energy Solution	BYD	BYD	® LG Energy Solution BYD BYD				
Storage type		RESU 6.5 to RESU 12	B-Box LVS 4.0 to 24.0	B-Box LVL 15.4	RESU 6.5 to B-Box LVS B-Box I RESU 12 4.0 to 24.0 15.4				
Max. power charge / disch	narge (kW)	2.5 to 5.0*	2.5 to 5.0*	2.5 to 5.0*	2.5 to 5.0*	2.5 to 5.0*	2.5 to 5.0*		
Usable capac	ity (kWh)	5.9 to 23.4	4.0 to 24.0	15.4 to 30.8	2.9 to 23.4	4.0 to 24.0	15.4 to 30.8		
Expandable / from commiss	Time window sioning	unlimited, up to 2 units	unlimited	unlimited	unlimited, up to 2 units	unlimited	unlimited		
Emergency po (separate AC o			Backup port		Backup port				
Battery backu (backup conne i.n. transfer sv	ection inverter,		Backup port			Backup port			
Full battery b	ackup ansfer switch)		0			0			
Active PV-modules in backup mode			•			\circ			
System inforr	nations	1-phase DC coupled st	torage system		1-phase AC coupled storage system				
Solutions for storage syste configuration	·m	1-phase hybrid device coupling	with additional PV	inverter via AC	1-phase AC coupled s inverter via AC coupli		additional PV		

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Storage inver	ter type				-	rid 3600 - 6000 ofit 3600 - 6000				
Max. PV systo	em size (kWp)	DC: 4.8 to 8.0 (only EH) AC: no limitations								
	1					•				
AC phases	3		0							
Surge	AC		-							
Protection Device	DC					-				
Bat	AC (BatInv)					•				
coupling	DC (Hybrid)					•				
Bat. charging PV inverter (<i>F</i>						•				
Manufacture	r storage		BYD		; ; PYL	ONTECH	- A-X -	ITEC	GOODWE	
Storage type		B-Box HVS 5.1 to 12.8	B-Box HVC 10.4 to 23.5***	B-Box HVM 11 to 22.1	96V Force-H1 10.1 to 23.6	96V Force H2 6.7 to 13.5	AXIstorage Li SV1 10.1 to 23.6	AXIstorage Li SV2 6.7 to 13.5	Lynx Home F LX F6.6 to 13.1-H	
Max. power charge / disch	narge (kW)	per 5.1 to 10.0	per 5.1 to 10.0	per 5.1 to 10.0	3.6 to 8.4	4.8 to 9.6	3.6 to 8.4	4.8 to 9.6	3.6 to 6.0*	
Usable capac	ity (kWh)	5.1 to 38.4	10.4 to 70.5	11.0 to 66.3	10.1 to 23.6	6.7 to 13.5	10.1 to 23.6	6.7 to 13.5	6.55 to 13.1	
Expandable / from commis	Time window sioning	unlimited	expected unlimited	unlimited	up to 2	2 years	up to 2	2 years	up to 2 years	
Emergency po (separate AC					Bac	kup port				
Battery backı (backup conn i.n. transfer s	ection inverter,				Bac	kup port				
Full battery b	ackup ansfer switch)					0				
Active PV-mo backup mode						•				
System infor	mations	1-phase DC coupled storage system, BH series for AC connection								
Solutions for larger storage system configurations 1-phase hybrid device with additional PV inverter via AC coupling, BH series via AC coupling to matching PV inverter										



Storage inver	ter type			T plus+ Hybrid 5K / 6.5K / BT Retrofit 5K / 6K / 8K /					
Max. PV syste	em size (kWp)		DC: 6	5.5 to 13.0 (only ET / ET plu AC: no limitations	ıs+)				
	1	0							
AC phases	3			•					
Surge	AC			type 2 (only ET plus+)					
Protection Device	DC			type 2 (only ET plus+)					
Bat	AC (BatInv)			•					
coupling	DC (Hybrid)								
Bat. charging PV inverter (A				•					
Manufacture	r storage		BYD		‡‡ PYLO	NTECH			
Storage type		B-Box HVS 5.1 to 12.8	B-Box HVC 10.4 to 23.5***	B-Box HVM 11 to 22.1	96V Force-H1 13.5 to 23.6	96V Force-H2 6.7 to 13.5			
Max. power charge / disch	narge (kW)	per 5.1 to 10.0	per 5.1 to 10.0	per 5.1 to 10.0	4.8 to 8.4	4.8 to 9.6			
Usable capac	ity (kWh)	5.1 to 38.4	10.4 to 70.5	11.0 to 66.3	13.5 to 23.6	6.7 to 13.5			
Expandable / from commis	Time window sioning	unlimited expected unlimited unlimited up to 2 years							
Emergency po (separate AC o				Backup port					
Battery backu (backup conne i.n. transfer sv	ection inverter,			Backup port					
Full battery b	ackup ansfer switch)			0					
Active PV-mo backup mode				•					
System inform	mations	3-phase DC coupled storage system; BT series for AC connection; Connection of heat pump via potential-free contact							
Solutions for storage syste configuration	em		llel operation (only hybrid) y, Germany + Austria: all EI I to matching PV inverter		nchronized) ***				

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Storage inver	ter type			rid 5K / 6.5K / 8K / 10K 5K / 6K / 8K / 10K					
Max. PV syste	em size (kWp)		· · · · · · · · · · · · · · · · · · ·	nly ET / ET plus+) mitations					
AC phases	1	0							
Ac phases	3	•							
Surge Protection	AC		type 2 (on	ly ET plus+)					
Device	DC		type 2 (onl	ly ET plus+)					
Bat	AC (BatInv)								
coupling	DC (Hybrid)								
Bat. charging PV inverter (A									
Manufacture	r storage	- A-X -I	HEC	GOODWE	C LG Energy Solution				
Storage type		AXIstorage Li SV1 23.5 to 23.6	AXIstorage Li SV2 6.7 to 13.5	Lynx Home F LX F6.6 to 16.4-H	RESU FLEX 8.6 to 17.2				
Max. power charge / disch	narge (kW)	4.8 to 8.4 4.8 to 9.6		5.12 to 10.0	4.3 to 8.5				
Usable capac	ity (kWh)	13.5 to 22.4	6.7 to 13.5	6.55 to 16.38	8.6 to 34.4				
Expandable / from commiss	Time window sioning	up to 2 years expected unlimited							
Emergency po (separate AC o			Backı	up port					
Battery backu (backup conno i.n. transfer sv	ection inverter,		Backı	up port					
Full battery b	ackup ansfer switch)		(
Active PV-mo backup mode									
System informations 3-phase DC coupled storage system; BT series for AC connection; Connection of heat pump via potential-free contact									
Solutions for larger storage system (SEC1000S box necessary, Germany + Austria: all EPS outlets active - not synchronized) *** Configurations Up to 10 systems in parallel operation (only hybrid) (SEC1000S box necessary, Germany + Austria: all EPS outlets active - not synchronized) *** BT series via AC coupling to matching PV inverter									





						energy.		
Storage inver	ter type	SUN2000-2 / 3 / 3.68 / 4 / 4.6 / 5* / 6* KT-L1	SUN2000-3 / 4 / 5 / 6 / 8 / 10 KTL-M1	Bli	ueplanet Hybrid 10.0 T	L3		
Max. PV syste	em size (kWp)	DC: 3.0 to 9.0 AC: no limitations	DC: 4.5 to 15.0 AC: no limitations		DC: 12.0			
	1	•	0	0				
AC phases	3	0	•		•			
Surge Protection	AC	typ	pe 2		-			
Device DC		typ	pe 2		-			
Bat	AC (BatInv)	•	•		0			
coupling	DC (Hybrid)	•	•		•			
Bat. charging PV inverter (A		•	•		0			
Manufacture	r storage	% H		BYD				
Storage type		LUNA2000-	5 / 10 / 15-50	B-Box HVS B-Box HVC B-Box H\ 5.1 to 10.2 10.4 to 23.5*** 11 to 22				
Max. power charge / disch	narge (kW)	2.2 to 5.0*	5.0 / 10.0	5.1 to 10.2	per 5.1 to 10.2	5.1 to 10.2		
Usable capac	ity (kWh)	5.0 to	o 30.0	5.1 to 30.6	10.4 to 70.5	11.0 to 66.3		
Expandable / from commis	Time window sioning	unliı	nited	unlimited	expected unlimited	unlimited		
Emergency po (separate AC		1-phase with Huawei Backup Box-B0	1-phase with Huawei Backup Box-B1	0				
Battery backu (backup conno i.n. transfer sv	ection inverter,	1-phase with Huawei Backup Box-B0	1-phase with Huawei Backup Box-B1		0			
Full battery b	ackup ansfer switch)	0	0	with I	Kaco Hy-Switch Backu	р Вох		
Active PV-mo backup mode		•	•		•			
System informations		1-phase DC coupled storage system	3-phase DC coupled storage system	3-phase DC coupled storage system; EPS-function just with optional activation				
Solutions for larger storage system configurations		1-phase hybrid device with additional PV inverter via AC coupling	up to 3 systems in parallel operation ***, (for 1-phase emergency back up function, Backup Box-B1 required, only active on master device) with additional PV inverter via AC coupling	no coupling with sec monitoring portal	cond inverter possible,	no manufacturer		

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Storage inver	ter type		(Plentico	Plenticore Plus 3.0/4.2/5.5/7.0/8.5/10 are Plus 3.0 with BYD HVM					
Max. PV syste	em size (kWp)			DC: 4.5 to 15.0 AC: no limitations					
25.1	1			\circ					
AC phases	3			•					
Surge Protection	AC			-					
Device	DC			-					
Bat	AC (BatInv)			0					
coupling	DC (Hybrid)			•					
Bat. charging PV inverter (A				•					
Manufacture	r storage	-AXITEC		BYD		C LG Energy Solution			
Storage type		AXIstorage Li SH (Energypack)	B-Box HVS 5.1 to 12.8	B-Box HVC 10.4 to 23.5***	B-Box HVM 11.0 to 22.1	RESU FLEX 8.6 to 17.2			
Max. power charge / disch	narge (kW)	2.7 to 4.0	2.7 to 6.5	2.6 to 5.3	2.6 to 5.3	4.3 to 8.5			
Usable capac	ity (kWh)	7.5 to 15.0	5.1 to 38.4	10.4 to 23.5	11.0 to 66.3	8.6 to 34.4			
Expandable / from commis	Time window sioning	unlimited	unlimited	expected unlimited	unlimited	expected unlimited			
Emergency po (separate AC				\circ					
Battery backu (backup conne i.n. transfer sv	ection inverter,			0					
Full battery b (automatic tra	ackup ansfer switch)			0					
Active PV-mo backup mode		0							
System inform	mations	3-phase DC coupled storage system; Connection of heat pump via potential-free contact							
Solutions for storage syste configuration	em	3-phase hybrid device wit	th additional PV inverter	via AC coupling					



Storage inver	ter type			core BI nd 10 / 26			Piko MP Plus 1.5-1/2.0-1/2.5-1		
Max. PV syste	em size (kWp)		AC: no lii	mitations		DC: 2.3 to 3.75 AC: no limitations			
	1		()		•			
AC phases	3					0			
Surge Protection	AC			-			-		
Device	DC			-			-		
Bat	AC (BatInv)						•		
coupling	DC (Hybrid)		(\supset			\circ		
Bat. charging PV inverter (A							•		
Manufacture	rstorage	-A-XITEC		BYD			BYD		
Storage type		AXIstorage Li SH (Energypack)	B-Box HVS 5.1 to 12.8	B-Box HVC 13.1 to 23.5***	B-Box HVM 13.8 to 22.1	B-Box HVS 5.1 to 7.7	B-Box HVC 7.8 to 10.4***	B-Box HVM 8.3 to 11.0	
Max. power charge / disch	narge (kW)	2.7 to 4.0	5.1 to 10.0	6.6 to 10.0	6.6 to 10.0	1.5 to 2.5	1.5 to 2.5	1.5 to 2.5	
Usable capaci	ity (kWh)	12.5 to 15.0	5.1 to 38.4	13.1 to 23.5	13.8 to 66.3	5.1 to 7.7	7.8 to 10.4	8.3 to 11.0	
Expandable / from commiss	Time window sioning	unlimited	unlimited	expected unlimited	unlimited	unlimited	expected unlimited	unlimited	
Emergency po (separate AC o	ower clamp)		(0			
Battery backu (backup conno i.n. transfer sv	ection inverter,		(0		
Full battery b	ackup ansfer switch)		(\circ		
Active PV-mo backup mode			(\supset		0			
System inform	mations	3-phase AC coupl	ed storage systen	n	1-phase DC coupl	led storage system	ı		
Solutions for storage syste configuration	em .	3-phase battery ir AC coupling	nverter with high	charging power an	d PV inverter via	via 1-phase hybrid device with additional PV inverter v AC coupling			

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Storage inver	ter type		Piko MP Plus 3.0-2/3.6-2/4.6-2/5.0-2*		LG ESS Home 8.0 / 10.0		
Max. PV syste	em size (kWp)		DC: 4.5 to 6.9 AC: no limitations		DC: 12.0 / 13.5		
05 - 1	1		•		0		
AC phases	3		•				
Surge Protection	AC		-		-		
Device							
Bat	AC (BatInv)		•		\circ		
coupling	DC (Hybrid)		•		•		
Bat. charging PV inverter (A			•		•		
Manufacture	r storage		BYD		LG Life's Good		
Storage type		B-Box HVS 5.1 to 12.8	B-Box HVC 7.8 to 23.5***	B-Box HVM 8.3 to 22.1	LG HBC 11H / 15H		
Max. power charge / disch	narge (kW)	2.7 to 4.6	2.0 to 4.6	2.0 to 4.6	5.0 to 7.0		
Usable capac	ity (kWh)	5.1 to 12.8	7.8 to 23.5	8.3 to 22.1	10.6 to 28.4		
Expandable / from commiss	Time window sioning	unlimited expected unlimited		unlimited	expected 1 year, up to 2 units		
Emergency po (separate AC o	ower clamp)		0				
Battery backu (backup conno i.n. transfer sv	ection inverter,		0				
Full battery b (automatic tra	ackup ansfer switch)		0		with Enwitec Backup Box		
Active PV-mo backup mode			0		•		
System inform	3-phase DC coupled storage system; Inverter with 3 MPP Tracker						
Solutions for storage syste configuration	em em	1-phase hybrid device with add	itional PV inverter via AC couplir	ng	Stand-alone system; no expansion via AC coupling possible		



Storage inver	ter type	Sunny Is	land 4.4M / 6.0	H/8.0H	Sunny Island	d 4.4M/6.0H	Sunny Tripow	ver 5.0 / 6.0 / 8.0 Energy	/ 10.0 Smart
Max. PV syste	em size (kWp)		A	C: no limitations	**		,	DC: 7.5 to 15.0 AC: no limitations	5
0.C = h====	1						0		
AC phases	3				(•		
Surge	AC		-		-		type 2		
Protection Device	DC		-			-		type 2	
Bat	AC (BatInv)		•		(0	
coupling	DC (Hybrid)		\bigcirc						
Bat. charging PV inverter (A			•					•	
Manufacturer	storage	-A-XITEC	Br	<u>י</u> ם	⊕ LG Ene	rgy Solution		BYD	
Storage type		AXIstorage Li 85	B-Box LVS 4.0 to 24.0	B-Box LVL 15.4	RESU 6.5	RESU 10 to RESU 12			B-Box HVM 11 to 22.1 ***
Max. power charge / disch	arge (kW)	3.3 to 18.0	3.3 to 18.0	3.3 to 18.0	3.3 to 5.0*	3.3 to 5.0*	5.1 to 10.6	10.2 to 10.6	10.2 to 10.6
Usable capaci	ity (kWh)	7.1 to 85.2	4.0 to 24.0	15.4 to 138.6	5.9 to 11.8	8.8 to 23.4	5.1 to 12.8	10.4 to 23.5	11.0 to 22.1
Expandable / from commiss	Time window sioning	up to 6 months	unlin	nited		nited, 2 units	unlimited	expected unlimited	unlimited
Emergency po (separate AC o			\bigcirc		0			\circ	
Battery backu (backup conne i.n. transfer sv	ection inverter,		\circ		0	0		Backup port	
Full battery be (automatic tra			E Backup Box (1) with phase co		0	with Enwitec Backup Box (1-phase)		\circ	
Active PV-mo			**		0	O ***			
System inform	nations	1-/ 3-phase AC coupled storage system; Use as pure offgrid system (PV + generator) possible		1-phase AC coupled storage system		3-phase DC coupled storage system			
Solutions for storage syste configuration	m	1- / 3-phase AC matching PV inv		ge system with	1-phase AC cou system with m inverter		3-phase hybrid device with additional PV inverter via AC coupling		

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Storage inver	ter type		Sur	nny Boy Storage 2.5 / 3.7 / 5.	0 / 6.0*					
Max. PV syste	em size (kWp)			AC: no limitations**						
0.C = h=====	1			•						
AC phases	3			\bigcirc						
Surge Protection	AC		-							
Device	DC			-						
Bat	AC (BatInv)			•						
coupling	DC (Hybrid)			\circ						
Bat. charging PV inverter (A				•						
Manufacture	rstorage	-A-XITEC		BYD		© LG Energy Solution				
Storage type		AXIstorage Li SH (except SBS 2.5)	B-Box HVS 5.1 to 10.2	B-Box HVC 7.8 to 23.5 (expect SBS 2.5)***	B-Box HVM 8.3 to 22.1 (except SBS 2.5)	RESU 10H + 16H Prime (except SBS 2.5)				
Max. power charge / disch	narge (kW)	2.5 to 6.0*	2.5 to 6.0*	3.7 to 6.0*	3.7 to 6.0*	3.7 to 6.0*				
Usable capac	ity (kWh)	7.5 to 45.0	5.1 to 30.6	7.8 to 23.5	8.3 to 66.3	9.6 to 32.0				
Expandable / from commiss	Time window sioning	unlimited	unlimited	expected unlimited	unlimited	unlimited				
Emergency po (separate AC o				(except SBS 2.5)						
Battery backu (backup conno i.n. transfer sv	ection inverter,			0						
Full battery b	ackup ansfer switch)		with Enwitec Backu	p Box (1-phase with phase o	coupling; except SBS 2.5)					
Active PV-mo backup mode		•**								
System inform	mations	1-phase AC coupled storage system; 3 battery inputs on the inverter (except SBS 2.5)								
Solutions for storage syste configuration	em .	1-phase AC coupled sto	orage system with match	ning PV inverter						

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Character in the control of the cont		HD-WAVE SetApp SE	HD-WAVE Sto	rEdge RWS SE			
Storage inverter type		2200H / 3000 / 3500H / 3680H / 4000H / 5000H* / 6000H*	2200H/3000/3500H/3680H/4000H/5000H*/6000H*				
Max. PV system size (kWp)		DC: 3.4 to 7.75 AC: no limitations	DC: 3.4 to 7.8 AC: no limitations				
1		•					
AC phases	3	\circ					
Surge Protection	AC	-	-				
Device	DC	-	-				
Bat	AC (BatInv)	•					
coupling	DC (Hybrid)	•					
Bat. charging PV inverter (A		•					
Manufacture	rstorage	solar <u>ao</u> ge	solar <u>adge</u>	⑥ LG Energy Solution			
Storage type		SE Energy Bank	SE Energy Bank	RESU 10H + 16H Prime			
Max. power charge / discharge (kW)		5.0	5.0	3.5 to 6.0*			
Usable capacity (kWh)		9.7 to 29.1	9.7 to 29.1	9.6 to 16.0			
Expandable / Time window from commissioning		unlimited	unlimited	0			
Emergency power (separate AC clamp)		0	0	0			
Battery backup light (backup connection inverter, i.n. transfer switch)		0	0	0			
Full battery backup (automatic transfer switch)		0	0	0			
Active PV-modules in backup mode		0	0	0			
System informations		1-phase DC or AC coupled storage system; Connection of heat pump via SE Smart Home Components	1-phase DC or AC coupled storage system; Connection of heat pump vi Home Components				
Solutions for larger storage system configurations		1-phase hybrid device with additional PV inverter via AC coupling	1-phase hybrid device with additional PV inverter via AC coupling				

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Storage inverter type			RWB48 Home Hub Inverter 5 / 8 / 10			
Max. PV system size (kWp)			DC: 10.0 to 15.0 AC: no limitations			
AC phases 1			0			
			•		•	
Surge Protection	AC		-		-	
Device	DC		-			
Bat	AC (BatInv)			announced	announced	
coupling	DC (Hybrid)		•		•	
Bat. charging PV inverter (A			•			
Manufacture	rstorage	BYD	C LG Energy Solution	solar <u>,adge</u>	solar <u>edge</u>	
Storage type		B-Box LVS 4.0 to 24.0	RESU 6.5 to RESU 12	Home Battery ***	Home Battery	
Max. power charge / discharge (kW)		per 3.3 to 5.0	per 4.2 to 5.0	2.8 to 5.0 / 4.0 to 5.0	2.8 to 5.0 / 4.0 to 5.0	
Usable capacity (kWh)		4 to 24	5.9 to 23.4 4.6 to 23.0		4.6 to 23.0	
Expandable / Time window from commissioning		unlimited, 1 tower only	unlimited, up to 2 units	unlimited	unlimited	
Emergency power (separate AC clamp)		0	0	0	0	
Battery backu (backup conne i.n. transfer sv	ection inverter,	0	0	0	0	
Full battery b	ackup ansfer switch)	0	0	with Home Backup Interface	with Home Backup Interface	
Active PV-modules in backup mode		0 0		•	•	
System inforr	nations	3-phase DC or AC coupled stora	onents			
Solutions for storage syste configuration	em .	up to 3 systems in parallel operawith additional PV inverter via A	3-phase hybrid device with additional PV inverter via AC coupling			



Storage inverter type		X1-HYBRID G4 (Version D) 3.0-D / 3.7-D / 5.0-D*		X1-FIT-E Retrofit 3.7 / 5.0*		X3-HYBRID G4 (Version D) 5.0-D / 6.0-D / 8.0-D / 10.0-D / 12.0-D / 15.0-D		
Max. PV system size (kWp)		DC: 4.5 to 7.5 AC: no limitations		AC: no limitations		DC: 8.0 to 18.0 AC: no limitations		
1		•			•	0		
AC phases	3	()		0	•		
Surge	AC	-		-		-		
Protection Device	DC		-		-	-		
Bat	AC (BatInv)	(\supset		•	0		
coupling	DC (Hybrid)				\circ	(
Bat. charging PV inverter (A		•			•		•	
Manufacture	r storage	X SOLAX FOVER		XSOLAX		XSOLAX		
Storage type		T-BAT H 5.8	T-BAT H 3.0 / 6.0 / 9.0 / 12.0	T-BAT H 5.8	T-BAT H 3.0 / 6.0 / 9.0 / 12.0	T-BAT H 5.8	T-BAT H 6.0 / 9.0 / 12.0	
Max. power charge / discharge (kW)		3.0 to 5.0*	3.0 to 5.0*	2.3 to 6.9*	3.0 to 5.0*	6.9 to 13.8	6.2 to 12.3	
Usable capacity (kWh)		5.2 to 15.6	2.79 to 11.16	5.2 to 15.6	2.79 to 11.16	10.4 to 20.7	5.58 to 11.16	
Expandable / Time window from commissioning		up to 1 year	up to 1 year	up to 1 year	up to 1 year	up to 1 year	up to 1 year	
Emergency power (separate AC clamp)		with Solax X1 EPS Backup Box		•		with Solax X3 EPS Backup Box		
Battery backup light (backup connection inverter, i.n. transfer switch)		with Solax X1 EPS Backup Box		•		with Solax X3 EPS Backup Box		
Full battery backup (automatic transfer switch)		0		0		with Solax X3 EPS Parallel Box		
Active PV-modules in backup mode		•		0		•		
System informations 1-phase DC coupled storage system; Use as pure offgrid system (only PV, without generator) possible; Heat pump connection via Solax adapter box		1-phase AC coupled storage system; Heat pump connection via Solax adapter box		3-phase DC coupled storage system; Use as pure offgrid system (only PV, without generator) possible; Heat pump connection via Solax adapter box				
STORAGE SYSTEM		1-phase hybrid device with additional PV inverter via AC coupling		1-phase AC coupled storage system with matching PV inverter		up to 5 systems in parallel operation (X3-EPS Parallel Box P5 required for backup operation, only same inverter power classes and battery sizes, EPS ports synchronized)		

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Storage inverter type		X3-HYBRID G4 (Version M) 6.0-M / 8.0-M / 10.0-M / 12.0-M / 15.0-M	X3-FIT-E Retrofit 8.0 / 10.0*		SH 5.0 / 6.0 / 8.0 / 10.0 RT			
Max. PV system size (kWp)		DC: 10.0 to 18.0 AC: no limitations	AC: no limitations		DC: 5.0 to 15.0 / AC: no limitations			
05 - 4	1	0	0		0			
AC phases	3	•	(•		
Surge	AC	-	-		type 2			
Protection Device	DC	-	-			type 2		
Bat	AC (BatInv)	0				\circ		
coupling	DC (Hybrid)	•	()		•		
Bat. charging PV inverter (A		•	•		•			
Manufacture	rstorage	X SOLAX	Xsolax		BYD			
Storage type		T-BAT H 6.0 / 9.0 / 12.0	T-BAT H 5.8	T-BAT H 6.0 / 9.0 / 12.0	B-Box HVS 5.1 to 12.8	B-Box HVC 10.4 to 23.5***	B-Box HVM 11.0 to 22.1	
Max. power charge / discharge (kW)		6.2 to 12.3	5.8 to 11.5	6.2 to 12.3	per 6.0 to 10.6	6.0 to 10.6	per 6.0 to 10.6	
Usable capacity (kWh)		5.58 to 11.16	10.4 to 20.7	5.58 to 11.16	5.1 to 38.4	10.4 to 23.5	11.0 to 66.3	
Expandable / Time window from commissioning		up to 1 year	up to 1 year	up to 1 year	unlimited	expected unlimited	unlimited	
Emergency power (separate AC clamp)		0	•		Backup port (can only be used separately per device during parallel operation)			
Battery backup light (backup connection inverter, i.n. transfer switch)		0	•		Backup port (can only be used separately per device during parallel operation)			
Full battery backup (automatic transfer switch)		with Solax X3 Mate Box	0		0			
Active PV-modules in backup mode		with Solax X3 Mate Box	0		•			
System informations		3-phase DC coupled storage system, use only with X3-Matebox; Heat pump connection via Solax adapter box	3-phase AC coupled storage system; Heat pump connection via Solax adapter box		3-phase DC coupled storage system; Heat pump connection via D0 contact			
Solutions for larger storage system configurations		3-phase hybrid device, Stand-alone system with 3-phase Backup power function via X3 Matebox	3-phase AC coupled storage system with matching PV inverter		up to 5 systems in parallel operation (note requirements for FRE connection and NA protection in Germany, only same inverter power classes possible); with additional PV inverter via AC coupling			

SUNGROW Clean power for all



Storage inver	ter type	SH 5.0 / 6.0 / 8.0 / 10.0 RT					Pulse neo 6	Element Backup 6 / 12 / 18
Max. PV system size (kWp)		DC: 5.0 to 15.0 / AC: no limitations					AC: no limitations	
AC phases		0					•	0
ric phases	3	•					0	•
Surge Protection	AC			type 2			-	-
Device	DC			type 2				
Bat	AC (BatInv)			\bigcirc			•	
coupling	DC (Hybrid)			•			(\supset
Bat. charging PV inverter (A				•			(•
Manufacture	r storage	PYLONTECH -AXITI		TEC	SUNGROW Clean power for all	₩	ARTA	
Storage type		96V Force-H1 13.5 to 23.6	96V Force-H2 6.7 to13.5	AXIstorage Li SV1 13.5 to 23.6	AXIstorage Li SV2 6.7 to 13.5	SBR 096 / 128 / 160 / 192 / 224 / 256	Pulse neo	Element
Max. power charge / discharge (kW)		5.8 to 10.1	5.8 to 11.5	5.8 to 10.1	5.8 to 11.5	per 6.0 to 10.6	2.5 / 2.3	2.2 to 4.0 / 1.8 to 4.0
Usable capacity (kWh)		13.5 to 23.6	6.7 to 13.5	13.5 to 23.6	6.7 to 13.5	9.6 to 25.6	5.9	5.9 / 11.7 / 17.7
Expandable / Time window from commissioning		up to 2 years up to 2 years unlimited			-	unlimited		
Emergency power (separate AC clamp)		Backup port (can only be used separately per device during parallel operation)					0	backup port/box (only active on master device)
Battery backup light (backup connection inverter, i.n. transfer switch)		Backup port (can only be used separately per device during parallel operation)					0	backup port/box (only active on master device)
Full battery backup (automatic transfer switch)				0	0			
Active PV-mo				0	0			
System infor	mations	3-phase DC coup	3-phase DC coupled storage system; Heat pump connection via D0 contact					3-phase AC coupled storage system
Solutions for storage syste configuration	em	up to 5 systems in parallel operation (note requirements for FRE connection and NA protection in Germany, only same inverter power classes possible); with additional PV inverter via AC coupling				AC coupled storage system, 1-/3-phase, ideal for storage retrofitting in existing plants, cascadable up to 5 units with Varta link		

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Explanation of The specifications

Description

Storage inverter type		Name inverter series and power classes				
Max. PV system size (kWp)		DC System size according to manufacturer's specifications *				
AC phases	1	1-phase grid connection				
AC phases		3-phase grid connection				
Surge	AC					
Protection Device	DC	Specification of integrated overvoltage protection, if applicable also as an additional option				
Bat	AC (BatInv)	Definition of battery coupling via AC: Inverter is designed as pure AC-coupled device (e.g. SMA Sunny Island) or can also be used as hybrid inverter without connection of PV modules as bat inverter.				
coupling	DC (Hybrid)	Definition of battery coupling via DC: The inverter is designed as a hybrid device and can charge the battery via DC coupling from the directly connected PV modules.				
Bat. charging PV inverter (A		Use of a second inverter (same or different manufacturer) for charging the battery storage via AC coupling				
Manufacture	r storage	Manufacturer storage				
Storage type		Storage type				
Max. power charge / disch	narge (kW)	maximum charge / discharge power in the respective unit combination *				
Usable capacity (kWh)		Usable capacity according to storage manufacturer *				
Expandable / from commis	Time window sioning	Possibility of a battery expansion as well as the time window for this from the time of commissioning				
Emergency power (separate AC clamp)		Definition: Separate clamp at inverter for external socket(s), which is fed from battery and if possible by solar power.				
Battery backup light (backup connection inverter, i.n. transfer switch)		Definition: direct supply of few defined circuits via backup connection at the inverter, if necessary also with switching by backup box (no complete house load)				
Full battery backup (automatic transfer switch)		Definition: by means of automatic transfer switch in central main line (according to local regulations) supply of all/defined circuits takes place				
Active PV-modules in backup mode		Recharge option in case of grid failure				
System informations		Additional system information				
Solutions for larger storage system configurations		Details regarding cascadability and special conditions and properties for larger configurations				

^{*} The respective columns for the unit series contain different performance classes, therefore all information refers to the smallest and largest unit in each case. Detailed information can be found in the data sheet.



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