PROJECT STORAGE SYSTEMS



PROJECT
COMMERCIAL
INDUSTRY



GOODNE

Type commercial storage	GW ET Hybrid			
system	15K / 20K / 25K / 29.9K			
Manufacturer / model storage	BYD B-Box HVS 5.1 to 12.8	BYD B-Box HVM 11.0 to 22.1	Goodwe Lynx Home F LX F6.6 to 16.4H	Goodwe Lynx Home F plus LX F6.6 to 16.4H
Application (self-consumption, peak shaving, grid expansion avoidance, backup)	Self-consumption, peak shaving, backup (<10ms)			
Installation site		Ind	oor	
AC Power (kW)		15 / 20 /	25 / 29,9	
Mains connection		40	0 V	
Backup function / changeover device	•/○			
Capacity gross / net (kWh)	5,1 to 12,8 (net)	11.0 to 22.1 (net)	6,55 to 16,38 (net)	6,55 to 131,04 (net)
Expandable / time window for expansion	2 units per system / unlimited		2 units per system / up to 2 years	
max. charge rate (C-value)	varies depending on the combination			
Charging cycles	-			
Cell Chemistry	LFP			
Norms	VDE 4105			
Warranty system / memory	10 years / 10 years			
Interfaces communication	WLAN, Ethernet			
Energy Management System integrated / external	integrated			
Monitoring	via Goodwe Portal			
Enable control Mains relay, external NA protection, (VDE-AR-N 4105, up to 135kVA)				
Default certification	0			
Inbetriebnahme Unter- stützung	regular support			
System information	System currently not cascadable; 2 separate battery ports; ideal for small to medium commercial applications; peak shaving as operating mode possible; connection FRE via DRM inputs			

^{*} Release and availability according to manufacturer's specifications

^{**} Discontinuation announced by manufacturer



Type commercial storage	"SUN2000 12 / 15 / 17 / 20 / 25 K MB0"		"SMART PCS		
system			SUN2000 100KTL-M1"		
Manufacturer / model storage	Huawei SUN2000 LUNA 5 / 10 / 15-S0	Huawei SUN2000 LUNA 7 / 14 / 21-S1	Huawei LUNA 2000-200kWh-2H0		
Application (self-consumption, peak shaving, grid expansion avoidance, backup)	Self-consumption, backup (announced)		Self-consumption, peak shaving		
Installation site	Indoor				
AC Power (kW)	12 / 15 / 17	//20/25	100		
Mains connection		40	0 V		
Backup function / changeover device	with backup bo	x / announced	0		
Capacity gross / net (kWh)	5,0 / 10,0 / 15,0 (gross = net)	7,0 / 14,0 / 21,0 (gross = net)	200 (gross = net)		
Expandable / time window for expansion	unlimited				
max. charge rate (C-value)	varies depending on the combination		0,5		
Charging cycles	-		-		
Cell Chemistry	LFP				
Norms	VDE 4105 / 4110		VDE 4110		
Warranty system / memory	10 years / 10 years		10 years / 5 years		
Interfaces communication	Ethernet		ernet		
Energy Management System integrated / external	integrated		"Huawei Smart Logger / suitable parking controller"		
Monitoring	via Huawei Portal				
Enable control Mains relay, external NA protection, (VDE-AR-N 4105, up to 135kVA)	•		0		
Default certification	0				
Inbetriebnahme Unter- stützung	regular support		expected regular support		
System information	Up to 3 systems cascadable; 2 separate battery ports; ideal for small to medium commercial applications; FRE connection via Huawei Smart Logger		AL -COUDIED BIOD-VOITAGE STORAGE SYSTEM FOR CORRECTION		

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Type commercial storage system	Scalebloc Scalestac Energy / Power / Power Boost Power / Power Boost		
Manufacturer / model storage	Intilion Scalebloc	Intilion Scalestac	
Application (self-consumption, peak shaving, grid expansion avoidance, backup)	Self-consumption, peak shaving, backup		
Installation site	Outdoor (air conditioned)	Indoor	
AC Power (kW)	25/50/68,5	25 each (per slot, max. 16)	
Mains connection	40	0 V	
Backup function / changeover device	/external (to be in the following of	implemented on site)	
Capacity gross / net (kWh)	73 each / 65.6	154 / 138.6 (Power) 123 / 110.7 (Power Boost)	
Expandable / time window for expansion	always as complete unit, up to 16 total / unlimited	always as a complete unit / unlimited	
max. charge rate (C-value)	up to 1 C up to 2 C (depending on design*		
Charging cycles	8000 (90% DoD)	> 5000 (90% DoD)	
Cell Chemistry	NMC LFP		
Norms	VDE 4105 / 4110		
Warranty system / memory	10 years		
Interfaces communication	Ethernet, Mo	odbus TCP/IP	
Energy Management System integrated / external	Intilion EMS inte	grated / optional	
Monitoring	via integrated Intilio	on web server/cloud	
Enable control Mains relay, external NA protection, (VDE-AR-N 4105, up to 135kVA)	0	•	
Default certification	(at the manufacturer or on site with installation support)		
Inbetriebnahme Unter- stützung	Support installation / complete installation		
System information	Commercial storage system for small to medium-sized applications, outdoor, batteries certified according to VDE-AR-N 2510-50 (FLEPS fire protection concept)	Commercial storage system for larger applications, indoor, as option ** with certification according to VDE-AR-N 2510-50 (FLEPS fire protection concept, optional depending on system size)	



Type commercial storage system	Commercial Storage Solution 30-20 Commercial Storage Solution 50-20			
Manufacturer / model storage	SMA Commercial Storage			
Application (self-consumption, peak shaving, grid expansion avoidance, backup)	Self-consumption, Peak-Shaving, Multi-Use			
Installation site	Ind	oor		
AC Power (kW)	30	50		
Mains connection	40	0 V		
Backup function / changeover device	prepared / ext	ernal box SMA		
Capacity gross / net (kWh)	32	56		
Expandable / time window for expansion	up to 6 batteries per rack / up to 6 months up to 10 batteries per rack / up to 6 mo up to 4 racks per WR, 50 WR total / unlimited up to 4 racks per WR, 50 WR total / unlin			
max. charge rate (C-value)	1C			
Charging cycles	8000 (expected)			
Cell Chemistry	NMC			
Norms	VDE 4105 / 4110			
Warranty system / memory	10 years (for IBN according to SMA specification)			
Interfaces communication	Ethernet			
Energy Management System integrated / external	integrated SMA System Manager (up to 5 devices) / with SMA Data Manager M (up to 50 WR)			
Monitoring	via SMA ennexOS portal			
Enable control Mains relay, external NA protection, (VDE-AR-N 4105, up to 135kVA)	0			
Default certification	Training at SMA			
Inbetriebnahme Unter- stützung	Initial commissioning support on site			
System information	Set includes SMA Energy Meter Commercial, SMA System Manager integrated in inverter, prepared for backup power (an- nounced Q3/24), Sunny Design sizing service			

SCIFAR

Type commercial storage system	HYD 10 / 15 / 20 KTL				
Manufacturer / model storage	Pylontech Force H1 13.5 to 23.6	Pylontech Force H2 10.1 to 13.5	Sofar BTS-D5 E5 to E20	Axitec AXIstorage Li SV1 13.5 to 23.6	Axitec AXIstorage Li SV2 10.1 to 13.5
Application (self-consumption, peak shaving, grid expansion avoidance, backup)	Self-consumption, backup (<10ms)				
Installation site			Indoor		
AC Power (kW)			10 / 15 / 20		
Mains connection			400 V		
Backup function / changeover device	/ , manual changeover device				
Capacity gross / net (kWh)	13,5 to 23,6 (net)	6,7 to 13,5 (net)	4,75 to 19,0 (net)	13,5 to 23,6 (net)	6,7 to 13,5 (net)
Expandable / time window for expansion	6 units per syste	m / up to 2 years	2 units per system / unlimited	6 units per system / up to 2 years	
max. charge rate (C-value)	variiert je nac	h Kombination	varies depending on the combination	varies depending on the combination	
Charging cycles	-				
Cell Chemistry	LFP				
Norms	VDE 4105 / 4110				
Warranty system / memory	5 years / 10 years				
Interfaces communication	Ethernet				
Energy Management System integrated / external	integrated				
Monitoring	via Sofar Portal				
Enable control Mains relay, external NA protection, (VDE-AR-N 4105, up to 135kVA)					
Default certification	0				
Inbetriebnahme Unter- stützung	regular support				
System information	up to 10 systems cascadable; 2 separate battery ports; ideal for small to medium commercial applications; connector FRE integrated				

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Type commercial storage system	X3-Ultra 15K / 19.9K / 20K / 25K / 30K	Flex Storage E	Flex Storage E Backup	
Manufacturer / model storage	"Solax T-BAT HV-S 10.0 to 33.2"	Varta Storage		
Application (self-consumption, peak shaving, grid expansion avoidance, backup)	Self-consumption, backup (<10ms)	Self-consumption, Peak-Shaving	Self-consumption, Peak-Shaving, Backup	
Installation site	Indoor	Ind	loor	
AC Power (kW)	15 / 19,9 / 20 / 25 / 30	36 / 8	0 / 120	
Mains connection	400 V	40	0 V	
Backup function / changeover device	/ , with Solax EPS Parallel Box	0,0	only 50% kWh usable) / integrated	
Capacity gross / net (kWh)	10,0 to 33,2 / 9,2 to 29,9	Unit with 75	5 / 67.5 each	
Expandable / time window for expansion	2 units per system / unlimited	up to 5 units / unlimited		
max. charge rate (C-value)	varies depending on the combination	0,5 C		
Charging cycles	>6000	>4000		
Cell Chemistry	LFP	NMC		
Norms	VDE 4105	VDE 4105 / 4110		
Warranty system / memory	tbd	5 years / 10 years (replacement of current value)		
Interfaces communication	Ethernet	Ethernet, Modbus TCP		
Energy Management System integrated / external	integrated	Varta EMS integrated / optional		
Monitoring	via Solax Portal	via Varta portal		
Enable control Mains relay, external NA protection, (VDE-AR-N 4105, up to 135kVA)	tbd	•		
Default certification	\circ	(must be done by manufacturer service)		
Inbetriebnahme Unter- stützung	regular support	included with each memory		
System information	up to 10 systems cascadable; 2 separate battery ports; ideal for small to medium commercial applications; connection FRE via DI inputs		Integrated grid switching device, backup PV / Load = AC charging power	