Storage Systems

BATTERY STORAGE CONTAINER
BSC 10ft / 20ft / 40ft

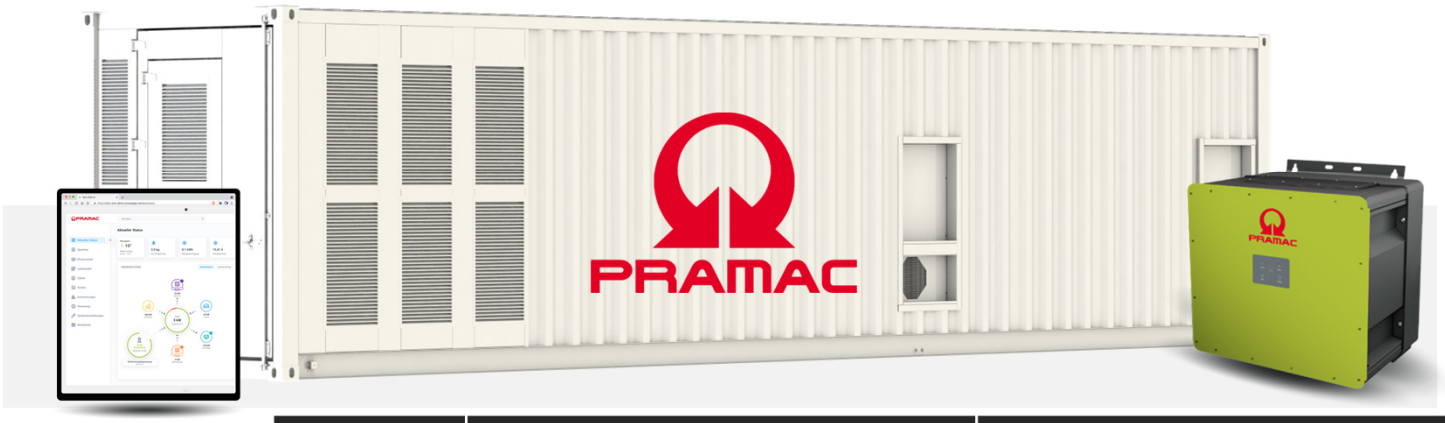
- **Pre-installed battery container all-in-one solution** – Capacity up to the MWh range
- **In-house power and control electronics** – Perfectly tuned with highest efficiency
- **Latest cell technology** – Highest quality, durability and safety
- **Modular scalability** – stackable containers

- **Commercial and industrial plants** – Peak Shaving, Time of Use, self-consumption optimization
- **Buffer storage for EV fast charging** – increase of usable power
- **Control power** – balancing grid fluctuations
- **Urban district storage or new buildings** – Transformer load relief

- **Pramac Storage Systems** – leading supplier of power electronics
- **Proven technology** – For a wide range of battery applications
- **Strong team** – with a global partner
- **Reliable energy storage solutions** – Indoor / Outdoor / Container



BATTERY STORAGE CONTAINER BSC



	10ft Container	20ft HC-Container			40ft HC-Container		
TECHNICAL DATA	BSC 352/436/10 ZC351T1D000	BSC 352/474/20 ZD351T2D000	BSC 704/948/20 ZD701T2H000	BSC 264/1066/20 ZD261T2I000	BSC 1408/1896/40 ZE142T2P000	BSC 528/2133/40 ZE521T2R000	BSC 792/2133/40 ZE791T2R000
Battery Data							
Total gross capacity (kWh)	436	474	948	1066	1896	2133	2133
Rated capacity (kWh) (90% DoD)	392	427	853	959	1706	1920	
Rated power (kW)	352		704	264	1408	528	792
Max. C-Rate	1C						
Celltype	Li-Ion (LFP) Pouch						
Cycles @ 90% DoD | 65% SoH | 0,5C/0,5C	7300 (For details see warranty conditions)						
PBI 88K-PC							
Rated power (kW)	88						
Rated voltage (Vac)	380 / 400 / 415						
Max. AC current (A)	128						
AC grid connection	3P, PE / TT, TN-C, TN-S						
Rated frequency (Hz)	50						
THDi (%)	< 3						
AC power factor / range	1 / 0,3i … 0,3c						
Max. Efficiency (%)	98,6						
Topology	transformerless						
Safety facilities container system							
Active device	Permanent monitoring of the battery cells						
	Temperature sensor						
	Smoke-sensor						
	Fire extinguisher with Novec 1230						
Passive device	Overpressure flap						

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General data							
Working temperature range (°C)	-20 to +50						
Cooling / Heating Battery room	Active cooling and heating (air)						
Cooling / Heating Inverter room	Smart active cooling						
Max. permissible installation height (m)	2000						
Insulation	Rock wool, 75mm on ceiling and floor						
Doors	Front and rear access, middle corridor flat accessible						
Weight Container, assemled (kg)	8.900	11.000	17.800	18.700	33.600	35.500	37.000
Battery module (kg)	48						
Dimensions (WxDxH, mm)	2.991×2.438×2.591	6.058×2.438×2.896			12.192×2.438×2.896		
Protection class	IP65 (Battery room) / IP54 (Inverter room)						
Interfaces	RJ45 (Ethernet)						
Certificates / Approvals							
Safety Battery	CE / UN 38.3 / UN 3536 / IEC 62619 / IEC 63056 / UL 1973 / UL 9540A / VDE 2510-50						
Safety Battery Inverter	IEC 62109-1 / IEC 62109-2 / IEC 62116 / IEC 61727 / IEC 62477-1 / IEC 61439-1 / IEC 61439-2						
EU-Directives	2014/30/EU / 2014/35/EU / 2011/65/EU						
EMC	EN 61000-6-2 / EN 61000-6-4 / EN 61000-3-12 / EN 61000-3-11						
Grid connection conditions	VDE AR-N 4110:2018 / TOR Erzeuger Typ B / UTE C15-712-1 VFR 2019 / G99 / EN 50549-1/-2						
Warranty	10 years product warranty 10 years performance guarantee						



BATTERY STORAGE CONTAINER BSC

TECHNICAL DATA ENERGY-MANAGEMENT-SYSTEM		Pramac Smart Energy Controller (PSEC) ZY000A00010 | PSEC-DDMM
Voltage supply (Vdc)		• 10-24 • UPS for controlled shutdown and recovery
Connectors	USB	V 2.0 Micro-USB AB (OTG-Flash-Port V 2.0 USB-A (Host Port)
	LAN	2× RJ45 with 10/100 Mhz Dedicated MAC adresses for OT/IT use
	IoT	2× Internal Digital-IO connection module 2× Internal RS485 connection module
Basic functions		• Self-consumption optimization • Peak load shaving • Time-based charging/discharging
Extended functions		• Simple management of charging stations • Load management and prioritisation for charging points

POSSIBLE CONTAINER VARIANTS

				#Inverter in kW															
				1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
				88	176	264	352	440	528	616	704	792	880	968	1056	1144	1232	1320	1408
10ft Container	#Racks in kWh	1	109																
		2	218	■	■														
		3	327	■		■													
		4	436	■	■		■												
20ft HC Container		4	474		■		■												
		5	593					■											
		6	711		■	■			■										
		7	830							■									
		8	948		■		■				■								
		9	1067			■													
40ft HC Container		10	1185					■					■						
		11	1304											■					
		12	1422			■	■		■						■				
		13	1541													■			
		14	1659							■							■		
		15	1778					■										■	
		16	1896				■				■								■
		18	2133						■			■							

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