



Storage Systems

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



- **Pre-installed battery container all-in-one solution** – Power and capacity up to the MW or MWh range
- **In-house power and control electronics** – Perfectly optimised with maximum safety and efficiency
- **Latest cell technology** – Highest quality, durability and safety
- **Modular scalable in performance and capacity** – Stackable containers



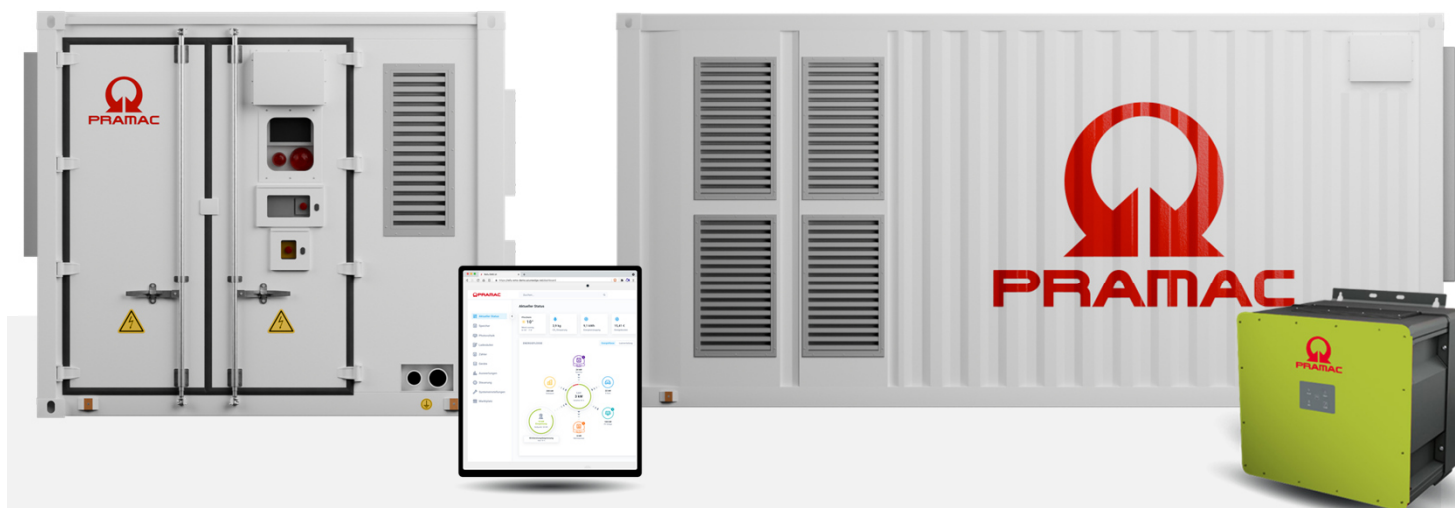
- **Commercial and industrial plants** – Peak shaving, Time of Use, Self-consumption optimization, Energy Trading
- **Buffer storage for EV fast charging** – Increase of usable power
- **Control power** – Balancing grid fluctuations
- **Urban district storage or new buildings** – Transformer load relief



- **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



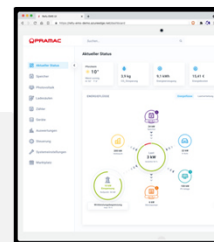
BATTERY STORAGE CONTAINER BSC



	10ft Container	20ft HQ-Container		40ft HQ-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 1C/1C	7.300 (For details see warranty conditions)						
PBI 88K-PC / BSC							
Rated power (kW)	88						
Rated voltage (Vac)	380 / 400 / 415						
Max. AC current (A)	128						
AC Main grid connection	3P, PE / TN-C						
AC Auxillary grid connection	3P, N, PE / TN-C-S						
Rated frequency (Hz)	50						
THDi (%)	< 3						
AC pow. 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						
Passive device	Fire extinguisher with Novec 1230						
	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)	2.000						
Insulation	Rock wool, 100 mm on ceiling and floor, 50 mm on walls						
Doors	Front and rear access, middle corridor flat accessible						
Weight Container, assembled (kg)	9.000	12.000	17.200	17.800	32.600	34.500	34.800
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 type	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 / C10/11 / G99 / EN 50549-1/-2						
Warranty	10 years product warranty 10 years performance guarantee						



BATTERY STORAGE CONTAINER BSC

Pramac Smart Energy Controller (PSEC) PSEC-DDMM

Basic functions



Monitoring – visualization of energy flows & 24/7 historical data



Local & Cloud access



Operations management



Peak shaving



Self-consumption optimization



Time-of-Use

Interfaces



Local and Cloud-to-Cloud REST API

Compatible with

Charging stations

EnerCharge

Alpitronic

Energy meter

Janitza

Acrel

Carlo Gavazzi

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	1	109																
	2	218	DCC	1:1														
	3	327	DCC		1:1													
	4	436	DCC	DCC		1:1												
20ft HC Container	2	237		1:1														
	4	474		DCC		1:1												
	5	593				1:1												
	6	711		DCC	DCC		1:1											
	7	830					1:1											
	8	948		DCC		DCC			1:1									
40ft HC Container	9	1067			DCC													
	10	1185				DCC					1:1							
	11	1304									1:1							
	12	1422			DCC	DCC		DCC				1:1						
	13	1541											1:1					
	14	1659						DCC						1:1				
	15	1778					DCC								1:1			
	16	1896				DCC			DCC								1:1	
	18	2133					DCC			DCC								1:1

DCC = variant with DC combiner for 2-4h systems / 1:1 = variant without DC combiner for 1h systems