



# 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		
<b>TECHNICAL DATA</b>	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
<b>Battery Data</b>							
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)						
<b>PBI 88K-PC</b>							
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						
<b>Safety facilities container system</b>							
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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<b>General data</b>							
<b>Working temperature range (°C)</b>	-20 to +50						
<b>Cooling / Heating Battery room</b>	Active cooling and heating (air)						
<b>Cooling / Heating Inverter room</b>	Smart active cooling						
<b>Max. permissible installation height (m)</b>	2000						
<b>Insulation</b>	Rock wool, 75mm on ceiling and floor						
<b>Doors</b>	Front and rear access, middle corridor flat accessible						
<b>Weight Container, assembled (kg)</b>	8.900	11.000	17.800	18.700	33.600	35.500	37.000
<b>Battery module (kg)</b>	48						
<b>Dimensions (WxDxH, mm)</b>	2.991×2.438× 2.591	6.058×2.438×2.896			12.192×2.438×2.896		
<b>Protection class</b>	IP65 (Battery room) / IP54 (Inverter room)						
<b>Interfaces</b>	RJ45 (Ethernet)						
<b>Certificates / Approvals</b>							
<b>Safety Battery</b>	CE / UN 38.3 / UN 3536 / IEC 62619 / IEC 63056 / UL 1973 / UL 9540A / VDE 2510-50						
<b>Safety Battery Inverter</b>	IEC 62109-1 / IEC 62109-2 / IEC 62116 / IEC 61727 / IEC 62477-1 / IEC 61439-1 / IEC 61439-2						
<b>EU-Directives</b>	2014/30/EU / 2014/35/EU / 2011/65/EU						
<b>EMC</b>	EN 61000-6-2 / EN 61000-6-4 / EN 61000-3-12 / EN 61000-3-11						
<b>Grid connection conditions</b>	VDE AR-N 4110:2018 / TOR Erzeuger Typ B / UTE C15-712-1 VFR 2019 / G99 / EN 50549-1/-2						
<b>Warranty</b>	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

### USB

V 2.0 Micro-USB AB (OTG-Flash-Port)  
V 2.0 USB-A (Host Port)

### Connectors

#### 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															
20ft HC Container	# Racks in kWh	4	436															
		4	474															
		5	593															
40ft HC Container	# Racks in kWh	6	711															
		7	830															
		8	948															
		9	1067															
		10	1185															
		11	1304															
		12	1422															
		13	1541															
		14	1659															
40ft HC Container	# Racks in kWh	15	1778															
		16	1896															
		17	2014															
		18	2133															

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