



*Design and print can deviate

COMING
SOON

BATTERY STORAGE SYSTEM		PST 50/109	PST 88/109
Total capacity (kWh)		109	
Rated net capacity (kWh) (90%DoD)		98,1	
Rated voltage (Vdc)		736	
Voltage range (Vdc) @23Module		690-828	
Max. Charge/discharge current (A)		148	
Cell type		Li-Ion (LFP) Pouch	
Cycles @ 90% DoD 65% SoH 0,5C/0,5C		7300	
BATTERY STORAGE INVERTER		PRAMACstor 50K – 421P050.010	PRAMACstor 88K – 421P100.010
Rated power (kW)		50	88
Rated voltage (Vac)		380/400/415	
Maximum 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 (%)		98,5	
Topology		transformerless	
SAFETY DEVICES SYSTEM			
Safety devices	Active devices	Permanent monitoring of the battery cells	
		CO sensor	
		H2 sensor	
		Smoke sensor	
	Passive devices	Exhaust fan	
		Extinguishing system with Novec 1230 Perfluor	
		Overpressure flap	

GENERAL DATA			
Operating temperature range (°C)		-20~60	
Humidity (% , RH)		5-95, non-condensing	
Cooling/heating concept	Battery room	Cooling power 3kW Heating power 1,05kW	
	Inverter room	Smart active cooling	
Dimensions (WxDxH, mm)		1500x1108x2320	
Total weight (kg) Incl. batteries and inverter		2100	
Protection class		IP65 (Battery room) / IP54 (Inverter room)	
Max. permissible installation height (m)		3000	
Corrosion resistance of the housing		C3	
Colour housing		RAL7035	
Interfaces		RJ45 (Ethernet)	
Certification / Approvals	Battery module		
	Battery system		
	Battery inverter	EU Directives	2014/30/EU, 2014/35/EU, 2014/53/EU, 2011/65/EU
		Product	IEC62109-1, IEC62109-2, IEC62116, IEC61727, IEC62477-1, IEC61439-1, IEC61439-2, ETSI EN 300 328 V.2.1.1
		Environment	IEC60068-2-1, -2-2, -2-30, -2-78, -2-14, -2-6, -2-27, -2-75
Grid connection conditions	DIN VDE V 0126-1-1, VDE AR-N 4105:2018, VDE AR-N 4110:2018, TOR Erzeuger Typ A, UTE C15-712-1 VFR 2019, G99, EN 50549		
Warranty		years product warranty 10 years performance guarantee	

TECHNICAL DATA SMART METER		Acrel ADL3000-E* 924020
Voltage	Reference voltage	3x380V, 3x220/380V
Current	Input current	3x1(6)A, 3x1(6)A (Passive current transformer), 3x10(80)A
Power		Active, reactive, apparent power, error ±0,5%
Communication		RS485 (Modbus RTU)
Conductor cross-section voltage measurement min/max (mm ²)		2,5/16
Mounting		DIN rail
Dimensions (WxDxH, mm)		126,5 x88,2x69,5
*Current transformer and fuse protection voltage measurement are not included in the scope of delivery		

TECHNICAL DATA ENERGY-MANAGEMENT-SYSTEM (EMS)		PRAMAC EMS 1.0 924024
Power supply		24-30 VDC
Processor		Dual Core 1,0 GHz ARM CPU, 1 GB DDR3 RAM, 8 GB Data memory
Operating temperature range (°C)		-5 ... +60
Operating humidity range (% , RH)		0-70 (non-condensing)
Communication		LAN-Ethernet, RJ45, RS485 (Modbus RTU)
Mounting		DIN rail 12TE
Dimensions (WxDxH, mm)		212x62x90