



# Prisma

STORAGE

## Power Conversion System (PCS)

Prisma Storage is a modular power conversion system (PCS) designed to help you control and optimise your stored energy.

It is available as a standard pre-assembled cabinet (Power Conversion System, PCS) or as a Power Conversion Kit (PCK) for custom integration. This flexibility allows you to either deploy a ready-to-use solution or tailor the system to your specific installation needs.

### Why energy storage?

- Maximise self-consumption from renewables
- Shift loads and avoid peak demand charges
- Stabilise power supply in weak-grid or remote areas
- Access energy markets for new revenue streams
- Reduce energy costs and increase resilience

### Key advantages

- Pre-assembled PCS or customisable PCK
- Compatible with all storage types: batteries, fuel cells, supercapacitors,...
- Compact design for easy installation
- Single-phase, three-phase or mixed setup flexibility
- High efficiency for better battery management and longer lifespan
- Embedded supervision with Inview monitoring
- Scalable to match your growing energy needs

### Compatible Modular Power Converters

Each Prisma Storage system can integrate up to six hot-swappable bidirectional modular power converters (MPC). The compatible module for this system is the PrismaBox 400 – 1DC/1AC – 750/400.



**PrismaBox 400 – 1DC/1AC – 750/400.**

AC1 In/Out Voltage (range)	3x400Vac or 3x480Vac (260-537Vac)
DC2 In/Out Voltage (range)	750Vdc (300-900Vdc)
Power	42,5kW or 50kW
Form Factor	2RU, 27kg



## Technical characteristics

	250kW	500kW	1MW
<b>Mechanical &amp; Environmental Specifications</b>			
Part Number	A00055-V01	A00057-V01	A00058-V01
Dimensions (W x H x D)	600x800x2100mm	2200x800x2100 mm	2800x800x2100 mm
Total weight	+/- 370kg	+/- 750kg	+/- 1070kg
Ingress Protection	IP20		
Cooling type	Fan forced cooling		
RoHS / Material (casing)	Compliant / Sheet Steel Powder Coated		
Operating T° / Relative Humidity (RH) non-condensing	-20°C to 40°C, power de-rating from 40°C to 65°C / Max RH 95% for 96 hours per year		
Storage T° / Relative Humidity (RH) non-condensing	-40°C to 70°C / Max RH 95%		
Terminal type and size	RB012 - 185 mm <sup>2</sup>	Copper landing part for 2x240mm <sup>2</sup> per phase	Copper landing part 3x300 mm <sup>2</sup> per phase
Maintenance access	All replaceable parts are accessible from the front		
<b>General Electrical Specifications (system-level electrical performance)</b>			
Total Power	250kW	500kW	1MW
Number of power converters	Up to 6 PrismaBox	Up to 12 PrismaBox	Up to 24 PrismaBox
Monitoring & Control	7-inch touchscreen Inview X+		
Peak efficiency (AC-DC or DC-AC)	> 98.5% at 50% load & nominal voltage		
Overload capacity	150% for 15 seconds		
Configuration / Neutral	Three Phase DELTA or STAR / TN-S, TN-C, TT		
<b>AC 1 In/Out</b>			
Nominal voltage (Power)	3x400 - 3x480Vac (250kW)	3x400 - 3x480Vac (500kW)	3x400 - 3x480Vac (1MW)
Voltage range (Line-Line)	3x260Vac to 3x537Vac (derating 3x260 to 355Vac)		
Power factor / THDi	> 0.99 / < 3%		
Frequency (Synchronization range)	50Hz or 60Hz (45 to 65Hz)		
AC output voltage stability (Inverter mode)	±1% from 10% to 100% load		
Static / Dynamic voltage regulation (Inverter mode)	±1% between 10% and 100% load / <5% from 0 to 100% to 0 load impact (100 ms)		
<b>DC 2 In/Out</b>			
Nominal voltage (Power)	750Vdc (250kW)	750Vdc (500kW)	750Vdc (1MW)
Voltage range	300 – 900Vdc (power derating between 300 to 660Vdc)		
Reverse polarity protection	Yes		
<b>Standard electrical compliance</b>			
Electrical safety standard	IEC62477-1, IEC62109-1, IEC62109-2, UL1741		
EMC/EMI	IEC61000-6-X/ FCC Part 15 classA / IEC61000-4-X		
Grid-Code	EN50549, VDE-AR-4105, AS4777, UL1741-SB, IEEE1547		
Low voltage switch gear & control gear assemblies	IEC61439-2		
<b>Integrated Protections (optional)</b>			
AC side	Motorized MCCB 400A	Motorized MCCB 800A	Motorized MCCB 2000A
DC side	Contactora + Fuse 400A NH3-1000V	Contactora + Fuse 800A NH3-1000V	Contactora + Fuse 2000A NH4-1000V
DC Earth leakage protection	Bender MRCDB423-D-1		
Anti-islanding decoupling relay	ZIEHL UFR1001-E		

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