FIMER



C&I Storage system PVX-215, PVX-215(107)-HV

This new Energy Storage System is a modular solution with Hybrid Cooling and nominal capacity up to 215 kWh. It is designed to offer an innovative and flexible solar solution for commercial and industrial applications.

From 107 to 215 kWh

Technical data and types

Model	PVX-215	PVX-215-HV	PVX-107-HV
System Data (PCS + Battery Packs)			
Nominal energy	215.0 kWh	215.0 kWh	107.5 kWh
Nominal capacity	280.0 Ah	280.0 Ah	280.0 Ah
Maximum cycle rate	0.5 CP	0.5 CP	1 C
Rated voltage	768 V	768 V	384 V
Operative voltage range	648–864 V	648–864 V	324–432 V
Maximum current	221.2 A	221.2 A	280.0 A
Battery Parameters			
Battery pack model	ESM-54-2E1	ESM-54-2E1	ESM-54-1E1
Cell chemistry	LPF	LPF	LPF
Number of battery packs	4	4	2
Rated voltage	192 V	192 V	192 V
Reted current	140 A	140 A	280 A
Carching/Discharging Power	26.88 kW	26.88 kW	53.76 kW
Maximum charge/discharging current	183 A	183 A	280 A
Intra-battery rack balancing mode	Battery pack-level active balancing	Battery pack-level active balancing	Battery pack-level active balancing
PCS Parameters (AC)			
DCDC model	-	DCDC-110U-LM51	DCDC-110U-LM51
DCDC configuration of a battery rack	-	1	1
PCS model	PCS-108K-MB1	PCS-108K-MB1	PCS-108K-MB1
Three-phase three-wire or three-phase four-wire	Supported	Supported	Supported
Rated mains voltage	380 V/400 V/415 V	420 V/440 V/480 V	380 V/400 V/415 V 420 V/440 V/480 V
Rated charge and discharge current of the system	164.1 A @ 380 V_{AC} 155.9 A @ 400 V_{AC} 150.3 A @ 415 V_{AC}	148.5 A @ 420 V_{AC} 141.8 A @ 440 V_{AC} 130.0 A @ 480 V_{AC}	164.1 A @ 380 V_{AC} 155.9 A @ 400 V_{AC} 150.3 A @ 415 V_{AC} 148.5 A @ 420 V_{AC} 141.8 A @ 440 V_{AC} 130.0 A @ 480 V_{AC}
Rated charge and discharge current of the system (1.1 times overload)	180.5 A @ 380 V_{AC} 171.5 A @ 400 V_{AC} 165.3 A @ 415 V_{AC}	163.4 A @ 420 V_{AC} 155.9 A @ 440 V_{AC} 142.9 A @ 480 V_{AC}	
Rated charge and discharge current of the system (1.2 times overload)	197.0 A @ 380 V_{AC} (1 min) 187.1 A @ 400 V_{AC} (1 min) 180.4 A @ 415 V_{AC} (1 min)	178.2 A @ 420 V_{AC} (1 min) 170.1 A @ 440 V_{AC} (1 min) 155.9 A @ 480 V_{AC} (1 min)	
Rated charge and discharge current of the system (1.3 times overload)	213.4 A @ 380 V_{AC} (5s) 202.7 A @ 400 V_{AC} (5s) 195.4 A @ 415 V_{AC} (5s)	193.0 A @ 420 V_{AC} (5s) 184.3 A @ 440 V_{AC} (5s) 168.9 A @ 480 V_{AC} (5s)	
Maximum power	140.4 kW	140.4 kW	108.0 kW
Communication			
System communications port	Ethernet/Optical fiber (optional)/RS485	Ethernet/Optical fiber (optional)/RS485	Ethernet/Optical fiber (optional)/RS485
System communications protocol	Modbus TCP	Modbus TCP	Modbus TCP
Environmental			
IP rating	IP55	IP55	IP55
Operating temperature range	–30°C to +55°C (derated above 50°C)	–30°C to +55°C (derated above 50°C)	–30°C to +55°C (derated above 50°C)
Storage temperature range	–35°C to +60°C	–35°C to +60°C	–35°C to +60°C
Operating humidity range	0–100% RH (non-condensing)	0–100% RH (non-condensing)	0–100% RH (non-condensing)
Maximum operating altitude	4000 m	4000 m	4000 m
Noise limit (rated working conditions)	≤ 65 dB	≤ 65 dB	≤ 65 dB
General Specification			
Battery temperature control mode	Liquid cooling	Liquid cooling	Liquid cooling
LTMS model	TMS-H008SG00	TMS-H008SG00	TMS-H008SG00
LTMS quantity	1	1	1
Dimensions (W x D x H)	1150 mm x 1800 mm x 2100 mm	1150 mm x 1800 mm x 2100 mm	1150 mm x 1800 mm x 2100 mm
Weight	≤ 2.8 t	≤ 2.8 t	≤ 2.0 t
Surge protection	Type II (AC port)	Type II (AC port)	Type II (AC port)
Auxiliary mains power supply	176–300 V AC, single-phase, dual-live wire ≤ 5 kVA @ 0.5CP	176–300 V AC, single-phase, dual-live wire ≤ 5 kVA @ 0.5CP	176–300 V AC, single-phase, dual-live wire ≤ 5 kVA @ 1C
Auxiliary power loss in standby mode (LTMS not started)	≤ 150.0 W	≤ 150.0 W	≤ 150.0 W
Thermal runaway suppression system	Aerosol (≥ 110 g)	Aerosol (≥ 110 g)	Aerosol (≥ 110 g)
Maximum efficiency	91,30%	89,00%	86,00%
Standards compliance			
Marking	RoHS 6	RoHS 6	RoHS 6
EMC	Class B	Class B	Class B
Safety Certifications	GB/T 36276, IEC 62619, IEC 62477-1; IEC 61000-3-12, etc.	GB/T 36276-2018, IEC 62619, IEC 62477-1, etc.	GB/T 36276, IEC 62619, IEC 62477-1; IEC 61000-3-12, etc.

Remarks:
- **Features not specifically listed in the present data sheet are not included in the product**
- **Please refer to FIMER's Solar page for further details**

For more information please contact your local MA Solar Italy srl. representative or visit:

fimer.com

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