



Reliable Energy Storage Solutions



- | High Rate Discharge
- | Flexible Module Design
- | Wide Voltage Range
- | Excellent Performance
- | Easy Installation
- | System Protection
- | Thermal Management
- | LED Display
- | Customized System

PFES ENERGY STORAGE SYSTEM-1.0-EN March 2019

PFES System

High Rate Lithium Battery Energy Storage System

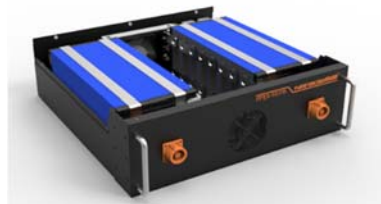
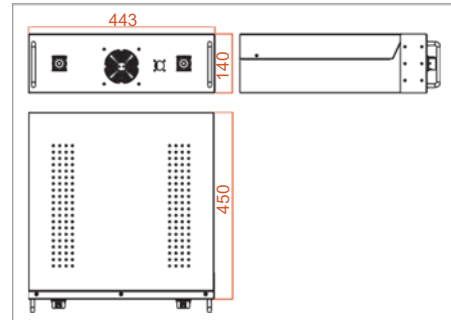
Module

Model		PFES55X16	
Rated Voltage	V	51.2	
Rated Capacity	Ah	55	
Weight	kg	32	
Charge Current (Max)	A	55	
Discharge Current	A	275	
Charge Voltage	V	57.6	
Discharge Voltage	V	43.2	
Dimensions	Width, mm	443	
	Depth, mm	450	
	Height, mm	140	

Operating Environment

Temperature Range	Discharge	-20 to +60°C
	Charge	0 to +60°C
	Storage	0 to +40°C
Recommended Temperature	Discharge	+15 to +35°C
	Charge	+15 to +35°C
	Storage	+15 to +30°C
Relative Humidity		5% to 95%

Dimensions of module - mm

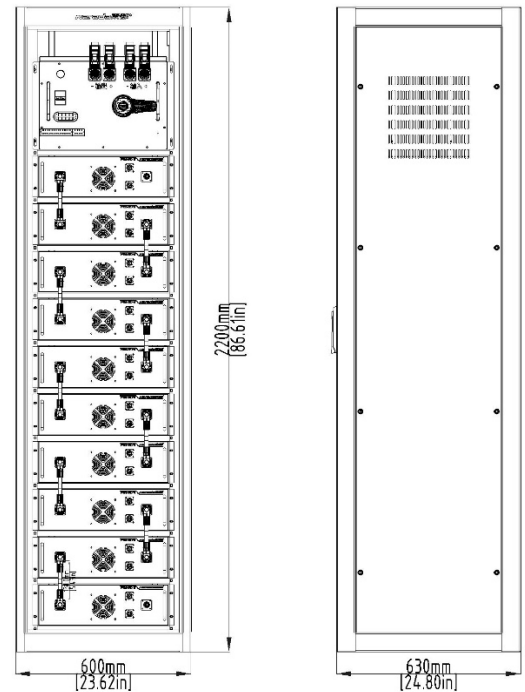


System

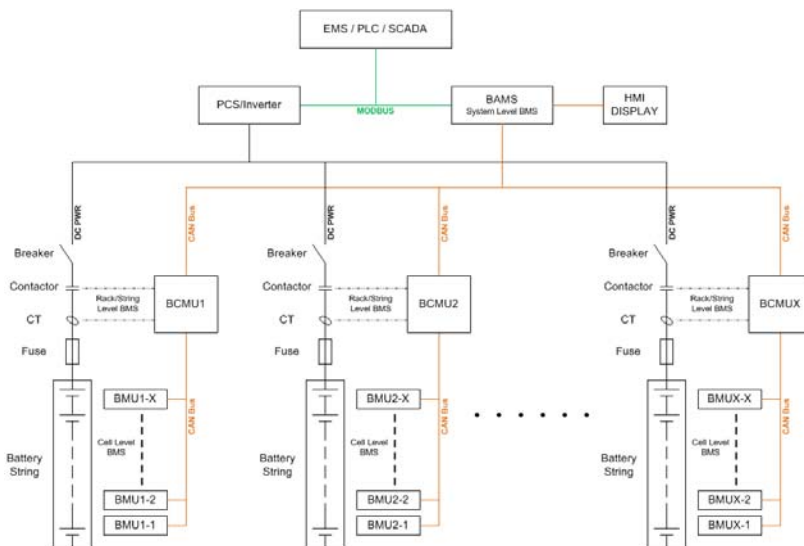
System Model		PFES55X16	
Nominal Voltage	512V	Charge Voltage	576V
End Voltage	432V	Max Charge Current	55A (1C)
Charge Power	28.16KW	Discharge Current	275A
Discharge Power	141KW	Module Capacity	55Ah
System Load	28.16KWh	System Weight	< 500kg
System Size	2200*600*630 (Height * Width * Depth)		

Discharge Data with Constant Power, kW

Backup Time (minutes)	1 Bank	2 Banks	3 Banks	4 Banks	5 Banks	6 Banks	7 Banks	8 Banks
2	173	346	519	692	865	1038	1211	1384
5	160	320	480	640	800	960	1120	1280
10	145	290	435	580	725	870	1015	1160
15	100	200	300	400	500	600	700	800
20	80	160	240	320	400	480	560	640
25	50	100	150	200	250	300	350	400
30	40	80	120	160	200	240	280	320



BMS Functions



- | Battery Monitoring
- | Fault Diagnosis Alarm
- | State of Charge (SOC)
- | Balancing
- | Discharge Control
- | Protection
- | Thermal Management