

Fit Series PV & Energy Storage System



Cost-Effective, Budget-Friendly

- Lightweight stacking cuts overall project costs
- Modular design lowers initial investment



Compact Modules for Flexible Deployment

- Compact battery units reduce reliance on heavy lifting machinery
- Easy on-site positioning adapts to any space constraints



Flexible Stacking, Scalable Capacity

- Free stacking supports multi-rack parallel expansion for tailored capacity
- External hybrid inverter fits diverse power demands



Streamlined O&M, Efficient Servicing

- Independent layout allows quick isolation and replacement of faulty units
- Layered air-cooling simplifies inspection and unit disassembly

PV & Energy Storage System Parameters (Stackable air-cooling battery rack + hybrid inverter)

System model	Fit-110/50	Fit-220/50	Fit-200/50	Fit-160/80	Fit-320/80	Fit-200/100	Fit-410/100
System capacity	112.53kWh	225.07kWh	208.98kWh	160.76kWh	321.53kWh	208.99kWh	417.99kWh
System rated power	50kW			80kW		100kW	
Stackable battery rack model	Fit-110		Fit-200	Fit-160		Fit-200	
Stackable battery rack quantity	1	2	1	1	2	1	2
Hybrid inverter model	EH50-IT-MX			EH80-IT-MX		EH100-IT-MX	
Hybrid inverter rated power	50kW			80kW		100kW	
Hybrid inverter quantity	1						

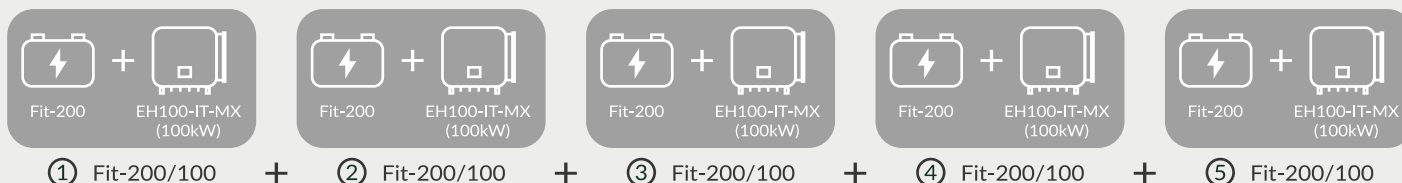
Typical C&I Parallel Configurations

2-Hour Peak • Demand Control

500 kW / 1045 kWh

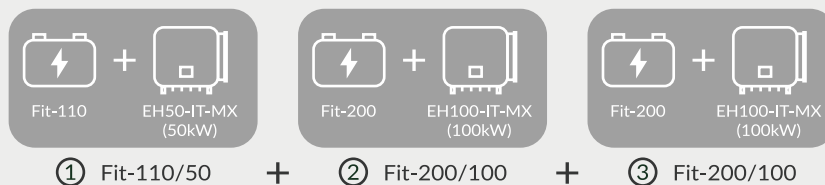
Large Factories & Industrial Parks • High Demand

≈2H-0.5C



250 kW / 530 kWh

Incorrect Example: Mixed Inverter Models ❌ NOT ALLOWED

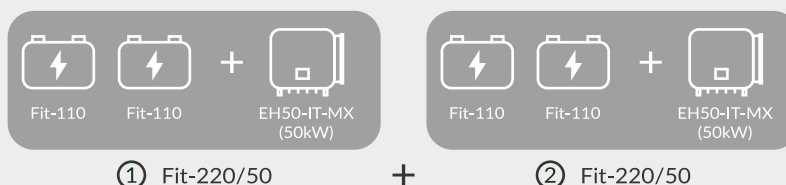


4-Hour Long-Duration • Backup & Arbitrage

100 kW / 450 kWh

Small C&I • Cost-Effective

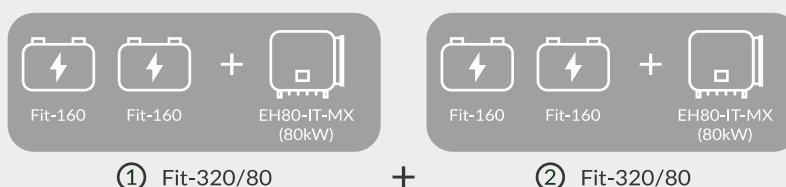
≈4H-0.22C



160 kW / 643 kWh

Small C&I • Extended Backup

≈4H-0.25C



Parallel Configuration Rules

Same-Power Matching

All Parallel Inverters Must Share the Same Power Rating

- ❌ No mixing different power models (e.g., 50kW + 80kW)
- ✅ Correct: $n \times 50\text{kW}$, $n \times 80\text{kW}$, $n \times 100\text{kW}$

Maximum 5 Hybrid Inverters in Parallel

Per sub-system: max 500 kW ($5 \times 100\text{ kW}$), max 2090 kWh ($10 \times \text{Fit-200}$)

Stackable Air-cooling Battery Rack Parameters



Fit-110



Fit-160



Fit-200

Battery Rack Model	Fit-110	Fit-160	Fit-200
Cell type	LFP 314Ah		
Pack configuration	1P16S		
Pack rated voltage	51.2V		
Pack dimensions (W*H*D)	445mm * 248.5mm * 851mm		
Pack weight	122kg		
Pack capacity	16.07kWh		
Pack quantity	7	10	13
Rack capacity	112.53kWh	160.76kWh	208.99kWh
Rack rated voltage	358.4V	512V	665.6V
Rack voltage range	313.6V ~ 397.6V	448V ~ 568V	582.4V ~ 738.4V
Ingress protection	IP20		
Anti-corrosion grade	C4-M		
Operating ambient humidity	5%~85%		
Operating ambient temperature	0°C~45°C		
Max. operating altitude	≤2000m		
Rack cooling method	Air-cooling		
Communication interface	CAN / LAN		
Communication protocol	CAN2.0B / Modbus TCP		
Rack dimensions (W*H*D)	910mm * 1016.5mm * 851mm	1365mm * 1016.5mm * 851mm	1820mm * 1016.5mm * 851mm
Rack weight	950kg	1320kg	1700kg

Hybrid Inverter Parameters

Hybrid Inverter Model	EH50-IT-MX		EH80-IT-MX		EH100-IT-MX	
DC input (PV side)						
Recommended max. PV array size	100kW		160kW		200kW	
Max. usable PV input power	100kW		160kW		200kW	
Max. input voltage	1000V					
Rated voltage	620V		600V			
Start-up voltage	180V					
MPPT voltage range	150V~950V					
Max. input current	40A x 4 / 40A x 6		42A x 10			
Max. short circuit current	60A x 4 / 60A x 6		60A x 10			
Number of MPPT/Number of max. input strings	4 MPPT / 8 strings		10 MPPT / 20 strings			
Battery						
Battery type	LFP					
Battery voltage range	150V~950V		180V~950V			
Max. charging/discharging current	160A / 80A x 2		200A / 100A+100A			
Number of battery ports	1 / 2					
Max. charging/discharging current for each port	160A / 80A		200A / 100A			
Communication	CAN / RS485					
AC output (emergency)						
Rated output power	50kW		80kW		100kW	
Max. apparent output power	1.5 times of rated power, 10s; 1.6 times of rated power, 0.2s		16 times of rated power; 2 times of rated power, 0.2s			
Emergency switch time	<10ms					
Rated output voltage	380V/400V/415V, 3P4W					
Rated frequency	50Hz/60Hz					
THDu (@linear load)	<3%		<2%			
AC input (Grid side)						
Max. input current	182.3A		243.1A		300A	
AC input (Generator)						
Rated input voltage	380V/400V/415V, 3P4W					
Rated input frequency	50Hz/60Hz					
AC output (Grid side)						
Rated output power	50kW		80kW		100kW	
Max. apparent output power	55kVA		88kVA		110kVA	
Rated grid voltage	380V/400V/415V, 3P4W					
Rated grid frequency	50Hz/60Hz					
Rated grid output current	76A/72.2A/69.6A		121.5A/115.5A/111.3A		151.9A/144.3A/139.1A	
Power factor	>0.99 (1 leading~1 lagging)		>0.99 (0.8 leading~0.8 lagging)			
THDi	<3% (Linear load<1.5%)		<2%			
Efficiency						
Max. efficiency	98%		97.8%			
General specification						
Dimensions (W*H*D)	600mm × 970mm × 290mm		971.5mm x 880mm x 311mm			
Weight	96kg		<150kg			
Topology	Transformerless					
Operating ambient temperature	-40°C~60°C (derated over 45°C)		-40°C~60°C (derated over 50°C)			
Relative humidity	0%~95% RH		0%~100% RH			
Ingress protection	IP66					
Cooling method	Intelligent air cooling					
Max. operating altitude	4000m (derated above 2000m)		4000m (derated above 3000m)			
Grid connection standard	EN 50549-1&2/EN 50549-10, VDE-AR-N 4105, NTS 631, CEI 0-21, C10/11, NRS 097-2-1, TOR, G99, IEC 62116, IEC 61727, MEA, PEA, etc.*					
Safety/EMC standard	IEC/EN 62109-1/-2, IEC/EN 61000-6-2/-4					
Communication interface	Standard: Wi-Fi + Bluetooth, CAN-BMS×1, CAN-Parallel ×2, LAN, RS485-Meter, EMS-RS485×1, CAN-EMS×1, DRM, DI×5, DO×6 Optional: 4G (alternative to Wi-Fi, WIFI is default)		Standard: Wi-Fi + Bluetooth, CAN-BMS×2, CAN-Parallel ×2, LAN, RS485-Meter, RS485, DRM, DI×5, DO×5 Optional: 4G (alternative to Wi-Fi, WIFI is default)			

*The certification standards listed in this column are planned targets. For the specific certification time, please consult with the local team.