

UP-M

Power Conversion Module



• Features

- DSP+CPLD fully digital control core, modular design, easy to maintain and expand.
- Pure sine wave output, low current harmonic content, no pollution and no impact on the grid.
- Dual AC and DC power supply to meet the requirements of black start mode.
- Can be equipped with RS232/RS485, Ethernet and other communication interfaces to achieve remote data acquisition and monitoring.
- Supports EMS local controller for intelligent energy control.
- Bi-directional Power Conversion System.
- Compatible with 19-inch rack for easy integration and installation.
- Optional smart transfer switch for auto-backup.
- Optional STS to achieve seamless switching between on-grid and off-grid.
- Maximum efficiency can reach 97.3%.

• Applications



Self-Consumption



Off grid



Demand Charge



Back Up



DG+BESS



Micro-grid



Smooth output



Peak Shifting

• Technical Parameter

UP-M Series Power Conversion Module			
Model	30KW	62.5KW	100KW
Utility-interactive Mode			
Battery voltage	600~900V		
DC max current	50A	100A	170A
AC voltage	380V±15%		
Max.AC current	100A	200A	400A
Nominal power	30KW	62.5KW	100KW
AC frequency	50Hz/60Hz±2.5Hz		
THDi	≤3%		
AC PF	-1~+1		
Stand-alone Mode			
Battery voltage	650~950V		
DC Max Current	50A	220A	440A
AC output voltage	380V±15%		
Max.AC output current	50A	100A	170A
Nominal AC output power	30KW	62.5KW	100KW
AC max power	33KW	68.75KW	110KW
Output THDu	< 3 %(Linear load)		
AC frequency	50Hz/60Hz±2.5Hz		
AC PF	-1~+1		
Overload Capability	110%: 10min ; 120%: 1min		
Physical			
Cooling	Forced air cooling		
Noise	≤70dB		
Enclosure	IP20		
Max elevation	3000m/10000feet (>2000m/6500feet derating)		
Operating ambient temperature	-20°C~ 50°C (> 45°C derating)		
Humidity	0 ~ 95%(No condensing)		
Size (W*H*D)	560*230*650mm		
Weight	/	/	/
Other			
Peak efficiency	97.30%		
Protection	Overtemperature protection, AC over/under voltage protection, Over/under frequency protection, Emergency power off, AC phase reverse, Fan/relay failure, Over/under load protection, Ground faultcircuit Interrupter, Anti-islanding		
AC connection	3P4W		
Display	7"color touch screen(optional)(External connection)		
Communication	RS485/CAN/ModBusTCP/IP/CAN/LAN		