

XMI Series

Telecom Inverter

1kVA-3kVA



Intelligent Flexibility

- N+X redundant parallel technology
- Masterless current sharing allows high-precision load sharing
- Direct use of DC system



High Reliability

- Noise suppression technology
- Online structure design
- Relay + SCR compensation and flashover protection
- AC and DC double loop input design



Intelligent Monitoring System

- Supports RS485/RS232 interface and SNMP(optional)

Applications: Indoor distribution system, network optimization, remote radio unit, railway, post and telecommunications, public security organs and other private network computer room systems



Specification

Model	XMI10HR-X	XMI20HR-X	XMI30HR-X
Capacity	1kVA	2kVA	3kVA
Input			
AC Voltage	176-250VAC (configurable)		
Frequency	50Hz ± 5%		
Power Factor	≥0.99		
DC Voltage	48VDC		
AC Output			
Power Factor	0.8		
Voltage	220VAC ± 2% (Inverter mode)		
Efficiency	≥90% (Inverter mode)		
Frequency	50Hz ± 0.25Hz (Inverter mode)		
Waveform	Pure sine wave (Inverter mode)		
THDu	≤3% (Linear load under full load)		
Overload	125% rated load 1 min; 150% rated load 10 sec		
Switching Time	≤10ms		
DC Output			
Voltage	-48VDC (Pure inverter without DC output)		
Current	Optional charging pad: 6A, 6A (30A panel), 30A, 10A		
Battery			
Rated Voltage	48VDC		
Charging Voltage Range	53-59VDC (configurable)		
Low-voltage Warning	43VDC ± 0.5VDC		
Undervoltage	≤40VDC		
Overvoltage Protection Point	≥60VDC		
Overvoltage Recovery	≥55VDC		
Reverse Connection Protection	Support		
Output (Inverter Mode)			
Overvoltage Protection	≥245VAC		
Low-Voltage Warning	≤200VAC		
Protection			
Output Short Circuit Protection	Support		
Overheat Protection	Built-in fan for heat dissipation, intelligent speed regulation according to load		
System			
Display	LCD, LED (optional)		
Communication	RS485, dry contact		
Physical			
WxDxH(mm)	482×350×44		
Weight(kg)	6.2		

* Specifications subject to change without notice.



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XMI-HR Series

Telecom Inverter

1kVA-15kVA



Intelligent Flexibility

- LiFePO4/Lead-acid battery compatible
- 19" Rackmount, support wall-mounted and embedded installation
- 150% DC oversizing, supports non-linear devices
- AC 220V and DC 48V output may be used simultaneously
- Cold start function



High Reliability

- Input PF ≥ 0.99
- Intelligent fan allows multiple modes to control the speed
- Battery mode efficiency $\geq 90\%$ at full load
- Mains power mode efficiency $\geq 99\%$



Green Performance

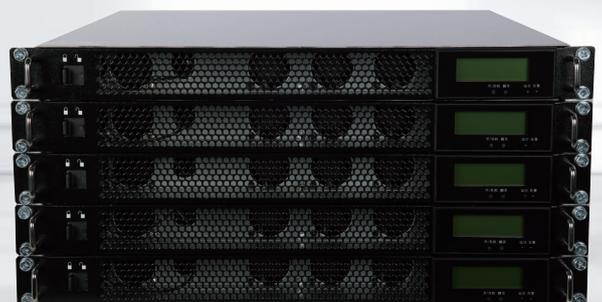
- The battery power-off voltage is configurable
- Multiple protection: undervoltage, overload, overheat, short circuit, surge, etc.
- Unmanned function



Intelligent Monitoring System

- Supports RS485 and dry contact

Applications: Indoor distribution system, remote radio unit, ubiquitous coverage, landline network



Specification

Model	XMI30HR	XMI60HR	XMI90HR	XMI120HR	XMI150HR					
Capacity	3kVA	6kVA	9kVA	12kVA	15kVA					
Input										
AC Voltage	Single phase 220VAC, 176-250VAC (configurable)									
Frequency	50Hz ± 5%									
DC Voltage	48VDC									
Reflected Wide-Band Noise Current	<10%									
Reflected Relative Psophometrically Weighted Noise Current	<2%									
Output										
Voltage	Single phase 220VAC									
Frequency	50Hz ± 0.5% (Inverter mode)									
Voltage Accuracy	±1% (Inverter mode)									
Efficiency (Inverter Mode)	> 90%									
THDu	<3% (Linear load under full load)									
Dynamic Response	±3% (100% Load change)									
Power Factor	0.8									
Battery										
Voltage	48V									
Charging Current	6A	0A	12A	0A	18A	0A	24A	0A	30A	0A
System										
Noise	<55dB @ 1m									
Display	LCD									
Alarm	Support									
Communication	RS485, dry contact, SNMP (optional)									
Protection										
Short Circuit	Support									
Overheat	Support									
Input Overvoltage	Support									
Output Overvoltage	Support									
Environment										
Operating Temperature	0 ~ 40°C									
Humidity	0 ~ 95% (Non-condensing)									
Physical										
Structure	Rack									
WxDxH(mm)	482*471 (Include terminal 503.3) *89.5		482*469 (Include terminal 495.1) *223.2							
Weight(kg)	6.2	17	27	33	39					

* Specifications subject to change without notice.



HW-DE Series

1kVA-3kVA



Reliable and Energy Efficient

- Automated self-testing
- Fan speed automatically adjusts according to the load
- IGBT allows high input impedance and large current-carrying capability
- Cold start function
- Power factor correction technology
- Heater pad (optional)



Intelligent Flexibility

- Indoor and outdoor design for various applications
- Compact design with built-in LiFePO4 battery
- Modular design for easy installation, O&M



Intelligent Monitoring System

- Supports dry contact, RS485/SNMP (optional)
- Multiple protection: undervoltage, overload, overheat, short circuit, surge, etc.
- Unmanned function

Applications: Indoor distribution system, network optimization, remote radio unit railway, post and telecommunications, public security organs and other private, network computer room systems



Specification

Model	HW10DE-L50	HW20DE-L50	HW30DE-L50
Capacity	1kVA	2kVA	3kVA
Input			
AC Voltage	176~250VAC (configurable)		
Frequency	50Hz ± 5%		
Power Factor	≥0.99		
DC Voltage	48VDC		
Output			
Rated Power	1kVA	2kVA	3kVA
Power Factor	0.8		
Voltage	220VAC ± 2% (Inverter mode)		
Efficiency	≥90% (Inverter mode)		
Frequency	50Hz ± 0.25Hz (Inverter mode)		
Waveform	Pure sine wave (Inverter mode)		
THDu	≤3% (linear load under full load)		
Overload	125% rated load 1 min; 150% rated load 10 sec		
Switching Time	≤10ms		
DC output			
Voltage	-48VDC		
Current	Optional charging pad: 6A, 6A (30A panel), 30A, 10A		
System			
Display	RS232, dry contact, optional: RS485, SNMP		
Battery			
Capacity	48V 50AH LiFePO4 battery pack (optional)		
Max. Charging Voltage Range	53~59VDC (configurable)		
Max. Charging Current	When the suffix is EA, the current is 6A; when ED, the current is 10A, when EF, the current is 30A(6A charging), when EG, the current is 30A(30A charging)		
Low Voltage Warning	43VDC ± 0.5VDC		
Undervoltage	≤40VDC		
Overvoltage Protection Point	≥60VDC		
Overvoltage Recovery	≥55VDC		
Reverse Connection Protection	Support		
Output (Inverter Mode)			
Overvoltage Protection	≥245VAC		
Low Voltage Warning	≤200VAC		
Protection			
Output Short Circuit Protection	Support		
Overtemperature Protection	Built-in fan for heat dissipation, intelligent speed regulation according to load		
Physical			
WxDxH(mm) (1* 48V50Ah LiFePO4 Battery)	600×295×680		



HW Series



Intelligent Management

- BMS: LVLD+LVBD functions, temperature compensation, automatic floating charging control, AVR, battery capacity calculation, online battery testing, etc
- Unmanned function
- Supports RS485, dry contact monitors information in real time
- APP (optional) supports remote meter reading
- Built-in wireless monitoring system



Advanced Technology

- Input power factor: up to 0.99
- Wide input range. AC: 90~290V, DC: 200~400VDC
- Full-bridge soft switching technology: full-load efficiency $\geq 96\%$
- Wide working temperature: $-40\text{ }^{\circ}\text{C} \sim 55\text{ }^{\circ}\text{C}$
- Ultra low radiation and advanced EMC design



Flexible Design

- Output 48VDC modules for selection
- Allows wall mounting, pole mounting, and floor mounting
- IP65, suitable for various outdoor environment
- Modular design for easy installation, O&M
- LiFePo4 battery pack with reserved battery expansion

Applications: 5G base station, SPC exchange access network, transmission equipment, mobile communication, satellite earth station, microwave communication equipment



Specification

Model	HW20E-L50DC48	HW30E-L50DC48
Capacity	2kW	3kW
Input		
Voltage	176VAC ~ 264VAC	
Frequency	45 ~ 55Hz	
Power Factor	> 0.98 (30% rated load) ; > 99% (100% rated load)	
Output		
Voltage	- 43VDC ~ - 58VDC	
Voltage Regulation Accuracy	< ±0.6%	
Conversion Efficiency	> 96.5% (50% rated load) ; > 96% (100% rated load) ;	
Peak To Peak Noise Voltage	≤200mV	
Source Effect	≤±0.1%	
Load Effect	≤±0.5%	
Battery		
Overvoltage Protection	≥120% of rated voltage	
Undervoltage Protection	≤80% of rated voltage	
Overcurrent Protection	The current limiting range of output current can be adjusted between 20% and 110% of its nominal value	
Voltage	48V	
Protection		
Short Circuit	Support	
Overtemperature Protection	Support	
Lightning Protection	Can withstand 5 times of impact of simulated lightning current waveform 8/20us, 20kA	
System		
Noise	< 45dB (A)	
Communication	Dry contact, RS485, NB-IOT, bluetooth, wireless, etc.	
Protection Class	IP65	
Environment		
Operating Temperature	-40 ~ 65°C (≥65°C, Output power derating)	
Storage Temperature	-40 ~ 80°C	
Humidity	10~95% (Non-condensing)	
Atmospheric Pressure	70 ~ 106KPa	
Altitude	0 ~ 3000m	
Cooling Method	Natural	
Safety Performance		
AC To GND	2500V AC (≤30mA leakage current) or 3535V DC for 1 min, without breakdown or arcing	
AC To DC	2500V AC (≤30mA leakage current) or 3535V DC for 1 min, without breakdown or arcing	
DC To GND	500V AC (≤30mA leakage current) or 707V DC for 1 min, without breakdown or arcing	
Insulation Resistance	At 15°C - 35°C, ≤90% humidity, and 500V DC test voltage, both AC and DC circuits to ground must have ≥2MΩ insulation resistance	
Physical		
WxDxH(mm)	Power Module	260×77×395
	Battery Module	316×220×410
Weight(kg)	Power Module	10.8
	Battery Module	34.4

* Specifications subject to change without notice.



E48 Series

30A-1000A

High Reliability

- Wide input range, appropriate for harsh environment
- BMS: LVLD+LVBD functions, temperature compensation, automatic floating charging control, AVR, battery capacity calculation, online battery testing, etc
- Advanced CPU and multiple microprocessor control technology

Excellent Design

- Non-destructive hot-swappable technology: ≤ 1 min replacement time
- LiFePO4/Lead-acid battery compatible
- Digital-control active power factor compensation technology: input power factor is up to 0.99

Perfect Protection

- Multiple protection: undervoltage, overload, overheat, short circuit, surge, lightning, fan fault alarm, fault display, historical alarm record storage, etc.

Applications: Base stations, small and medium size switching centers, wave network communications, satellite communications, data centers, etc.



Specification

Model		HW30E-L50DC48	
Capacity	30A-1000A		
Input			
Voltage Range	Start 140-290VAC	The input voltage range is the phase voltage of three-phase AC, and the system starting voltage shall be ≥ 140 VAC	
	Running 90-290VAC		
Rated Voltage	220VAC	Phase voltage	
Rated Frequency	43Hz - 67Hz (Typical value is 50/60Hz)		
Power Factor	≥ 0.99	Full load working condition	
Output			
Rated Voltage	-53.5VDC	Input 220VAC	
Voltage Range	-42 ~ -58VDC	Adjustable by monitoring (test condition: no load)	
Single Module Capacity	30 or 50A	Flexible configuration according to requirements	
Current	30 ~ 1000A	Under rated output conditions, 300A output is guaranteed at 90-176VAC input	
Output Ripple and Noise	≤ 200 mVp-p	The bandwidth of the oscilloscope shall be 20MHz, and the probe shall be connected in parallel with 10u + 104 capacitor	
Power On Output Delay	3 ~ 8S	Input 220VAC, AC input is calculated after the AC contactor is pulled in	
Voltage Stabilizing Accuracy	$\leq \pm 1\%$		
Noise	Broadband Noise Voltage	≤ 100 mV	3.4—150 KHz
	Telephone Weight Noise Voltage	≤ 30 mV	150—30 MHz
Dynamic Response	Overshoot Amplitude	$\Delta V: \leq 5\%V_o$	25%—50%—25% or 50%—75%—50% Load change
	Recovery Time	$\Delta t: \leq 500\mu S$	
Current Sharing Imbalance	$\leq 5\%$	Module parallel 50%—100% rated output (Power modules can work in parallel)	
Temperature Coefficient	$\pm 0.02\%/C$		
Efficiency	$\geq 92\%$	220VAC/ Rated load (typical)	
	$\geq 87\%$	110VAC/Rated load	
Protection			
System Input Overvoltage Cut-off	298 \pm 5VAC		
Module Input Overvoltage Protection	≥ 300 VAC		
System Input Undervoltage Cut-off	68 \pm 5VAC		
Physical			
Dimension and weight are subject to the power distribution module size and power module capacity.			

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