



3:3
PHASE



DATA CENTER



MEDICAL



INDUSTRY



TRANSPORTATION



EMERGENCY

MODULINE SERIES

**3 Phase Input
3 Phase Output UPS
30 - 300 kVA**



3 LEVEL
UPS



UPS ONLINE



TOWER



HIGH
EFFICIENCY



Li-On
READY

MODULINE SERIES

Moduline Series UPS, using the latest generation power components, new generation 3-Level technology, has the flexibility to operate between 30 and 300kVA powers with a single cabinet thanks to its hot-swappable modular structure. It offers a functional, safe, easy to install and use product with the latest power conversion technology. 3 units can be configured in parallel for a capacity up to 1500kVA.)

- 3-Level IGBT Technology; Full Rated Power: kW=kVA
- Online Double-Conversion Technology (VFI-SS-111 Class)
- IGBT PWM Rectifier & Inverter Technology
- Multi-processor digital control; 96% high efficiency
- Efficiency up to 98% with Eco mode feature
- Low input current THD ($\leq 3\%$)
- High input power factor (≥ 0.99)
- Low output voltage THD ($\leq 2\%$)
- Fast response time ($\leq 2\text{ms}$)
- Automatic soft start
- Cold start capability (battery start)
- Configurable for parallel operation of up to 3 units
- Dual input
- Smart redundancy management (n, n+1, and n+x)
- 256 detailed real-time event logs
- System capacity ranging from 30kVA to 300kVA in a single cabinet; up to 1500kVA total
- Configurable for parallel operation of 3 units
- Load-adaptive input to reduce battery consumption
- Static and manual bypass system
- Optimal footprint and ease of maintenance
- Data analysis via the user panel
- Extensive communication options
- Remote monitoring and management software
- Excellent generator compatibility
- Programmable dry contacts
- Advanced battery management
- 10.4" color touchscreen LCD with graphical display
- Independent LCD for each power module
- DC/DC Charger/Booster; flexible battery configuration
- Wide input voltage operating range
- Wide operating voltage range (down to -36%)
- 4U-height 50kVA power module facilitates capacity expansion
- Protection against short-circuit, overload, lightning, and voltage fluctuations
- Parallel connection of up to 8 units; intelligent redundancy management
- (n, n+1, and n+x) 256 detailed real-time event logs



MODULINE MDL300 SERIES

MODEL	MDL-3090/30	MDL-3150/30		MDL-3300/30
System capacity	90kVA	150kVA		300kVA
Power module capacity	TPM30 (30kVA/30kW)			
INPUT				
Dual input	Standard			
Phase	3 Phases + Neutral + Ground, 380V/400V/415V (line-line)			
Voltage range	304~478VAC (line-line), full load; 228V~304VAC (line-line), load decreases linearly according to the min. phase voltage			
Rate frequency	50Hz/60Hz			
Frequency range	40Hz/70Hz			
Power factor	> 0.99			
THDi	< 3% @ 100% linear load			
BYPASS				
Rate voltage	380/400/415VAC (Line-Line)			
Rated frequency	50Hz/60Hz			
Input voltage range	Settable, -40% ~ +25%			
By-pass frequency range	Selectable, ±1Hz, ±3Hz, ±5Hz			
Bypass overload		110% long term operation < 130% for 10 minutes < 150% for 1 minutes >150% for 1 ms	110% long term operation 110% ~ 125% last for more than 5 min. 125% ~ 150% last for more than 1 min. >150% last for more than 1 s.	
OUTPUT				
Rated inverter	380/400/415VAC (line-line)			
Voltage regulation	1% for balance load;1.5% for unbalance load			
Rated frequency	50Hz/60Hz			
Frequency precision	0.1%			
Output power factor	1.0			
Output THDu	< 1%, Linear load; <5.5% Non-linear load			
Crest factor	3:1			
Inverter overload	110% for 1 hour; 125% for 10 mins; 150% for 1 min; >150% for 200 ms			
BATTERY				
Voltage	±240VDC			
Battery number	40pcs (Settable: even number from 32 to 44)			
Voltage precision	1%			
Charge power	up to 20% Output active power			
Battery cold start	Standard			
SYSTEM				
System efficiency	AC Mode: 96.0% ECO Mode: 99.0% Battery Mode:96.0%			
Display	10.4" touch screen LCD+LED+keyboard			
IP class	IP20			
Interface	RS232, RS485, Programmable Dry Contact, USB			
Option	SNMP Card, Parallel kit, SPD, LBS, Dust filter			
Temperature	Operation: 0~40°C Storage: -40~70°C			
Relative humidity	0~95% (non-condensing)			
Altitude	< 1000. Within 1000m to 2000m, power derate 1% for every 100m rise			
Acoustic noise	72dB @ 100% load, 69dB @ 45% load			
Application standards	Safety: IEC/EN 62040-1, EMC:IEC/EN 62040-2, Performance: IEC/EN 62040-3			
PHYSICAL				
Net weight (kg)	Cabinet	260		
	Power module	23		
Dimension (HxWxD)	Cabinet	600x1000x2000		
	Power module	440x678x85(2u)		

• Depends on Input/Output voltage conditions and power



INNOVATIVE ENERGY SYSTEMS

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The company reserves the right to change
specifications and designs without notice.