

# On Line High Frequency Rack Mount UPS APD Lite Modular 60-140K(L)



## Technical Features:

- N+1 or N+R Parallel Redundancy for power guarantee
- Modular design decreases MTTR
- High scalability
- Built-in maintenance bypass switch for easy maintenance without interruptible
- High efficiency double conversion online UPS
- Adjustable charging current
- Graphic 5.7" LCD design for easy configuration
- Option of 10" colorful touch screen LCD



## Technical Specifications:

MODEL	APD 30U-60LV	APD 42U-80LV	APD 30U-80LV	APD 30U-120LV	APD 42U-140LV
PHASE	3-phase in/3-phase out				
CABINET CAPACITY*	54KW	72KW	72KW	108KW	126KW
BATTERY TYPE	Built-in Battery		External Battery		
One Power Module Capacity	20KVA/18KW				
Max. Power Module No.	3	4	4	6	8
Max. Battery Set No.**	3	4	-	-	-
INPUT					
Nominal Voltage	3 x 208 VAC (3Ph+N)				
Voltage Range	156 ~ 253 VAC at 70% - 100% load; 121 ~ 253VAC for <70% load				
Nominal Frequency	50/60Hz (Auto sensing)				
Frequency Range	40Hz ~70Hz				
Power Factor	> 0.99 at 100% load, >0.98 at 50% load				
Harmonic Distortion (THDi)	< 3% @ 100% load				
OUTPUT					
Nominal Voltage	3 x 208/220 VAC (3Ph+N)				
Voltage Regulation (Steady state)	≅ ± 1% Typical (balanced load) ; ≅ ± 2% Typical (unbalanced load)				
Voltage Regulation (Transient)	≅ ± 5% Typical				
Nominal Frequency	50/60Hz				
Frequency Range (Synchronized range)	46Hz ~ 54Hz or 56Hz ~ 64Hz				
Overload Capability	1 hour for 110%, 10 mins for 125%, 1 min for 150% and 200ms for >150%				
Harmonic Distortion	≅ 2% THD (Linear Load) ; ≅ 4% THD (Non-linear Load) (PF = 0.8 ~ 1)				
Efficiency	Up to 92.5% at over 50% load				
BATTERY / CHARGER					
Nominal Voltage	+/- 120V (12V x 20 pcs)				
Floating Charge Voltage	2.3V/Cell				
Boost Charging Voltage	2.35V/Cell				
Temperature Compensation	Yes				
Maximum Charging Current	8A for each power module (User-djustable)				
PHYSICAL					
Dimension, D X W X H (mm)	1100x600x1475	1100x600x2010	1100x600x1475	1100x600x1475	1100x1200x2010
Net Weight (kgs)	670.5	926	329	428.5	7 Power Modules: 504 8 Power Modules: 537
ENVIRONMENT					
Operation Temperature	0 ~ 40 °C				
Operation Humidity	0 ~ 95% non-condensing				
Altitude**	<1000m for Nominal power				
Noise Level	IP 20				
MANAGEMENT					
Smart RS-232/USB	Supports Windows family, Linux and MAC				
Optional SNMP	Power management from SNMP manager and web browser				
STANDARDS					
Safety	IEC/EN 60950-1; IEC/EN 62040-1				
EMC	IEC/EN 62040-2 Category C3				

\*\* One battery module contains 10 pcs of 12V/7Ah or 12/9Ah sealed lead acid batteries in one tray. One complete battery set contains 4 battery modules.

\*\*\*If the UPS is installed or used in a place where the altitude is above than 1000m, the output power must be derated one percent per 100m.

Model	Description	Dimension D x W x H (mm)	Weight (kg)
20KVA Power Module	3P/3P 20KVA/18KW power module	490x130x736.5 (3U)	34.5
Battery Module	10 pcs of 12V/9Ah batteries	710x107x154	26



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