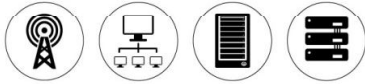
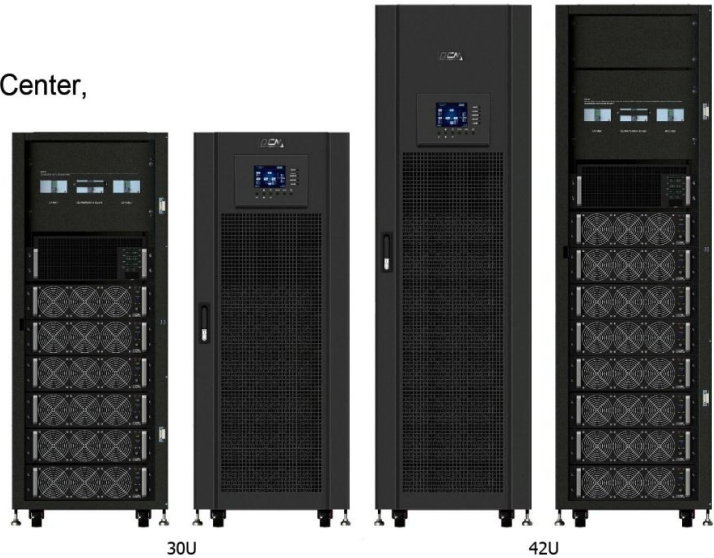


# ONL- Modular

Modular UPS provide full-protection for Data Center, IT Room, Service Center



Advanced LCD screen



30U

42U

## Main Feature

- **All Modular design**

All STS, UPS & Battery are modular design  
 Supporting 10 modules up to 200/300KVA in 1 cabinet  
 Flexible battery configuration from 32 to 40 pcs per string by setting  
 Easy expansion with little capital investment  
 Easy maintenance with hot-swappable capability

- **Extra Redundancy & Reliability**

Two individual inputs (Bypass & Rectifier)  
 Redundancy Power Supply in STS to ensure STS never down

- **Advanced UPS technology**

Unity Output Factor (PF=1.0)  
 Supporting Frequency Converter Mode  
 Industrial overload capability with 110% overload for 60mins. 125% for 10mins. 150% for 1 min.

- **Premium Power Management**

Adjustable charging current  
 -Each power module provides 8A charger, maximum up to 80A charger in rack system  
 -Charging power up to 20% system power  
 Parallel operation with 2 cabinet  
 -for 210KVA + 210KVA systems (30K Power Module System)  
 -for 100KVA + 100KVA systems (20K Power Module System)  
 Configurable DDP (Deep Discharge Protection)

- **Other Variety System Selection**

Programmable Communication Card available (option)  
 Cold start capability  
 Auto-reminding for battery maintenance  
 Up to 500 Event logs for user's reference  
 Battery Temperature Sensor available (option)



## Specifications

Model	ONL M 30U 90	ONL M 42U 120	ONL M 30U 120	ONL M 30U 180	ONL M 42U 210	ONL M 42U 300
<b>Capacity</b>						
Max. Capacity (VA)	90K	120K	120K	180K	210K	300K
Max. Capacity (Watts)	90K	120K	120K	180K	210K	300K
One Power Module Capacity	30KVA / 30KW or 20KVA / 20KW					
Max. Power Module No.	3	4	4	6	8	10
Power Factor**	1	1	1	1	1	1
<b>Main Input</b>						
Grid System	3 Phases + Neutral + Ground					
Voltage	380 / 400 / 415VAC (Line-Line)					
Voltage Range	304 to 478VAC : Full Load (Line-Line) 208 to 478VAC : <70% Load (Line-Line) (load decreases linearly according to the min phase voltage)					
Frequency	50/60Hz (Auto sensing)					
Frequency Range	40 - 70 Hz					
Power Factor	> 0.99 at 100% load > 0.98 at 50% load					
THDI	< 3% at Full Linear Load					
<b>Output</b>						
Inverter Voltage	380 / 400 / 415VAC (Line-Line)					
Inverter Frequency	50/60Hz					
Output Power Factor	Typical 1.0					
Voltage Precision	≤ ± 1% Typical (0-100% balanced Linear Load)					
Transient Response	≤ ± 5% Typical					
Transient Recovery	<100ms Recover to 90 % of Nominal Voltage					
Output THDv	≤ 2% (Linear Load), ≤ 4% (Non-Linear Load)					
Inverter Overload	105% to 110%, 60 min / 111% to 125%, 10 min / 126% to 150%, 1min / over 150%, 200ms					
Frequency Regulation	Default : 50/60Hz ± 0.1%					
Synchronized Range	Default Range : ± 4Hz , Settable Range : ± 1Hz, ± 2Hz, ± 4Hz					
Synchronized Slew Rate	1Hz / s					
<b>Battery And Charger</b>						
Battery Type	Internal		External Battery			
Max. Battery Set No.**	3	5	-			
Battery Voltage	Nominal Voltage : ± 216V (12V 18+18 Pcs) Minimum Voltage : ± 192V (12V 16+16 Pcs) Maximum Voltage : ± 240V (12V 20+20 Pcs)					
Charger Voltage precision	1%					
Charger Power	8A for each power module (User-adjustable)					
Floating Charge Voltage	2.3V/Cell					
Boost Charging Voltage	2.35V/Cell					
Temperature Compensation	Yes					
<b>Bypass Input</b>						
Voltage	380 / 400 / 415 VAC (Line-Line)					
Voltage Range	Default : -20% to +15% Selectable Upper Limit : +10%, +15%, +20% Selectable Lower Limit : -10%, -20%, -30%					
Frequency	50 / 60 Hz					
Frequency Range	Default : ± 4Hz Settable Range : ± 1Hz, ± 2Hz, ± 4Hz					
Bypass Overload	105% to 110%, 60 min 111% to 125%, 10 min 126% to 150%, 1min Over 150%, 200ms					
<b>Efficiency</b>						
Normal Operation	over 50% Load : >94.5%					
Battery Operation	over 50% Load : >94.5%					
<b>Static Transfer Switch</b>						
Inverter to Bypass	Synchronous transfer: 0ms Asynchronous transfer: < 1 cycle					
Bypass to Inverter	Bypass to Inverter 0 ms FCB to Inverter Module < 20 ms					
Transfer Efficiency	98%					
<b>Environmental</b>						
Operation Temperature	0 - 40°C					
Storage Temperature	-15°C - 60°C					
Relative Humidity	0 - 95% non-condensing					
Noise (1m from surface)	4 Power Modules : < 70dB 8 Power Modules : < 73dB					
Altitude	<1000m for Nominal power					
IP Class	IP 20					
<b>Physical Data</b>						
Dimension (WxDxH) (mm)	600 x 1100 x 1175	600 x 1100 x 2010	600 x 1100 x 1175	600 x 1100 x 1175	600 x 1100 x 2010	600 x 1100 x 2010
Weight (kg)	301.5	344	197	230.5	273	275
<b>System</b>						
Display	Standard : 5.7" LCD Optional : 10" Color Touch Screen					
Interface	Standard : RS232 / USB (Windows 2000/2003/XP/Vista/2008/7/8/10) Optional : SNMP					
Other Function	Standard : Battery Cold Start Optional : SNMP card, AS 400, MOD Bus, Extra Comm					
<b>Standards</b>						
Safety	IEC/EN 60950-1; IEC/EN 62040-1					
EMC	IEC/EN 62040-2 Category C3					

\* Three Phase Modular UPS, Power module base Output P.F=1 @0 ~ 30°C, Output P.F=0.9 @31 ~ 35°C, Output P.F=0.8 @36 ~ 40°C

\*\* Specifications are subject to change without further notice.

\*\* Specifications are for reference, actual information should be based on real product.