

POWER MOD Series 60KVA-300KVA

Unity output power factor

MOD series delivers unity output power (kVA=kW) providing the maximum power capacity to mission critical loads. It satisfies the requirements of the latest servers and optimizes IT investment with every penny.

Modular design lowers MTTR

Modular design is applied in power module, STS module and battery module. It will simplify maintenance and replacement with low MTTR (Mean Time To Repair).

High overload capability

MOD Series supports, 110% overload for 60Min, 125% for 10 minutes, and 150% for 1 minute.



High efficiency online double conversion technology

MOD Series is applied with online double conversion technology to reach its high performance > 94.5% at 50% load. It significantly reduces overall Total Cost of Ownership (TCO).

High scalability

DSP control provides an improved solution with high performance. Integrated with modular design and parallel technology, MOD Series simplifies future power expansion.

N+1 or N+X parallel redundancy for power guarantee

Scalable architecture allows you to optimize cost expense to meet power demands by vertically expanding in a single rack enclosure from 30KVA to 210KVA and achieve N+1 or N+X redundancy in the same rack. Supporting up to 420Kva system with 210Kva x2 in parallel operation

Graphic 5.7" LCD design for easy management

Designed for easy management, the intuitive design 5.7" graphic LCD display enhances the readability of identified and advanced configuration.

Highly reliable operation with redundant power supply in STS

MOD Series provides 2 power supplies in STS, ensuring no risk of shutdown.

Ease of installation and maintenance

Built-in maintenance bypass assures continuous power to critical loads during UPS maintenance. Besides, to facilitate installation and maintenance, all panel control and connectors are front accessibility.

Technical Specifications & UPS Selection Guide :

MODEL	MOD30U-90	MOD42U-120	MOD30U-120	MOD30-180	MOD42U-200-20	MOD42U-210	MOD42U-300
			MOD30U-80-20	MOD30U-120-20			
PHASE	3-Phase in /3-phase out						
CABINET CAPACITY	90KW	120KW	120KW or 80KW	180KW or 120KW	200KW	210KW	300KW
BATTERY TYPE	Built-in Battery		External Battery				
ONE POWER MODULE CAPCITY	30KVA/30KW		30KVA/30KW or 20KVA/20KW		20KW	30KVA/30KW	30KVA/30KW
MAX.POWER MODULE NO.	3	4	4	6	10	8	10
MAX.BATTERY SET NO.	3	5	-	-	-	-	-
INPUT							
Nominal voltage	3 x 380/400/415VAC (3ph+N)						
voltage Range	305-478 VAC at 100% load; 208-304 VAC at<705% load						
Nominal Frequency	50/60 Hz(Auto sensing)						
Frequency Range	40 Hz -70 Hz						
Power Factor	>0.99 @ 100% load;>0.98 @50%load						
Harmonic Distorion(THDi)	<3% @ 100% load						
OUTPUT							
Nominal voltage	3 x 380/400/415VAC (3ph+N)						
voltage Regulation(Stead state)	≤±1% Typical (balanced load);≤±2%Typical (balanced load)						
Nominal Frequency	50/60 Hz						
Frequency Range	46Hz- 54Hz- or 56Hz -64Hz						
Overload Capability	1 hour for 110% ,10 mins for 125%, 1 min for 150% 200ms for >150%						
Harmonic Distorion	≤2% THD (linear load);≤4% THD (non-linear load)						
Efficiency	Up to 94.5%						
BATTERY / CHARGER							
Nominal voltage	+/-216V(12V x 36 pcs)						
Maximum voltage	+/-240v(12v x 40 pcs)						
Minimum voltage	+/-192v(12v x 32 pcs)						
Float charging voltage	2.25V / Cell						
Boost charging voltage	2.35V / Cell						
Maximum charging current (per power module)	8A	8A for 30 KVA power module 6A for 20 KVA power module		6A	8A		
PHYSICAL							
Cabinet Dimension (DXWXH)mm	1100x600x1475	1100x600x2010	1100x600x1475	1100x600x1475	1100x600x2010		
Net Weight(kg)	675	932	335 or 333	437.5 or 434.5	611	549	620
ENVIPONMENT							
Operating Temperature	0-40 °c						
Relative Humidity	0-95% non-condenensing						
Altitude	<1000m for nominal power						
IP Class	IP 20						
MANAGEMENT							
Smart RS-232 /USB	supports windows* 2000/2003/xp / vista/2008;windows*7/8/10; linux and MAC						
Optional SNMP	Power mangement from SNMP manger and browser						
STANDARDS							
Safety	IEC/EN 60950-1; IEC/EN 62040-1						
EMC	IEC/EN 62040-2 Category C3						

Power Modules:

MODEL	Description	Dimension DxWxH(mm)	Weight (kg)
PM -20HV	3P/3P 20KVA/ 20KW power module	650x 440 x 132(3U)	34
PM -30HV	3P/3P 30KVA/30KW power module	650x440x132(3U)	34.5
Battery Module	10 pcs of 12v 9Ah batteries	735x107x155	26

Power Module 30KVA Cabinet

Rack Model Name	30U-90H	30U-120HV	30U-180HV	42U-120HV	42U-210HV	42U-300HV
Height	30U	30U	30U	42U	42U	42U
STS Capacity	90K	120K	210K	120K	210K	300K
Type of installlbe power module	HV 30K or HV 20K	HV 30K or HV 20K	HV 30K or HV 20K	HV 30K or HV 20K	HV 30K or HV 20K	HV 30K or HV 20K
Max . Number of installable power module	3	4	6	4	8	10
Number of installable battery modules in layer	3	N/A	N/A	N/A	N/A	N/A
Max .capacity of installing HV 20K module	60K	80K	120K	80K	160K	200K
Max .capacity of installing HV 30K module	90K	120K	180K	120K	210K (if nstalled with 8 pce one is for redundancy)	300k
Max copactily w/internal battery.no external battery	60 k(maxmim with 3layers of battry modules)	N/A	N/A	90k(maxmim with 5 layers of battery modules)	N/A	N/A
Buiit-in empty battery modules in BOM	yes, 12pcs	NO	yes, 20pcs	yes, 20pcs	NO	NO

Power Module 20KVA Cabinet:

Rack Model Name	20U-80-20KHV	30U-120-20KHV	42U-200-20KHV
Height	30U	30U	42U
STS Capacity	90K	120K	210K
Type of instalrlbhe power module	HV 20K only	HV 20K only	HV 20K only
Max . Number of installable power module	4	6	10
Number of installable battery modules in layer	N/A	N/A	N/A
Max .capacity of installing HV 20K module	80k	120k	200k
Max copactily wifnternal battery.no external battery	N/A	N/A	N/A
Buiit-in wmpy battery modules in BOM	N/A	N/A	N/A

*When temperature is above 30°C, the output power factor will be de-rated, 0.9 at 31°C ~35°C and 0.8 at 36°:40°C .

** 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 dreeded one percent per 100m.

