

SCU UPS

DSM Series UPS

20KVA-400KVA
Wire in/out mode: 3/3

DSM is a high frequency, on-line double-conversion uninterruptible power supply. 0.9 output PF to suit any load. In the same time, 6 system parallel is available, which meets the requirements of users' demand. DSM design and high control technology provides better protection and higher reliability on load.

The UPS has been designed to protect critical information and telecommunications systems, networks, services and processes which operation could be disrupted by poor power quality and/or breaks in their mains power supply.

Application: Finance, Transportation, Broadcast & TV network, Data processing center, HealthCare, Communication, E-Business, etc.



Finance

Transportation

Data
processing
center

Broadcast
& TV network

HealthCare

- **ZERO IMPACT SOURCE**

- low input current distortion - less than 3%, high input power factor 0.99;
- Delayed start-up protects its power supply sources (mains or generator) from any harmonics and reactive power generated by the loads it is powering.

- **BATTERY CARE SYSTEM**

- Two voltage level recharge meeting the IU characteristic:
 - Temperature compensation: to avoid excessive voltage being applied to the batteries in a high ambient
 - Extendable back-up time options using battery extension cabinets
 - Battery test: to detect performance degradation and predict battery failure.
 - Cycle recharge function. Battery could be maintenance according battery manufacturer's requirements, in order to extend the life of battery.
 - "Trial charging" recharging function, in order to avoid voltage unbalance after changing battery.
- Extension inverter design capacity, which supplies 115% load (PF0.8) for a long time.
 - Full active power from 0.9 capacitive to 0.9 inductive load.
 - High efficiency design, more than 95% (online mode)
 - DSP microprocessor technology ensures excellent static and dynamic characteristics in any operation situation.
 - Simple and convenient separation bypass
 - Variety of intelligent communication. Remote monitoring and control, easy management, suitable for unattended operation.
 - optional isolation transformer.



DSM-20

Rated power: 20KVA

Dimension (mm): 350(W)*660(D)*670(H)

Weight: 120Kg



DSM-30 DSM-40

Rated power: 30KVA/40KVA

Dimension (mm): 400(W)*750(D)*1000(H)

Weight: 135Kg/145Kg

SCU UPS

DSM Series UPS



DSM-60 DSM-80 DSM-100 DSM-120

Rated power: 60KVA/80KVA/100KVA/120KVA

Dimension (mm): 600(W)*950(D)*1600(H)

Weight: 190Kg/200Kg/220Kg/230Kg



DSM-160 DSM-200

Rated power: 160KVA/200KVA

Dimension (mm): 600(W)*950(D)*2000(H)

Weight: 280Kg/310Kg



DSM-240 DSM-300 DSM-400

Rated power: 240KVA/300KVA/400KVA

Dimension (mm): 1200(W)*950(D)*2000(H)

Weight: 420Kg/500Kg/560Kg

Model	DSM-20	DSM-30	DSM-40	DSM-60	DSM-80	DSM-100	DSM-120	DSM-160	DSM-200	DSM-300	DSM-400
Power	20KVA	30KVA	40KVA	60KVA	80KVA	100KVA	120KVA	160KVA	200KVA	300KVA	400KVA
INPUT											
Nominal voltage	380Vac										
Voltage tolerance	-25% ~ +25%										
Frequency tolerance	45 - 65Hz										
Input mode	three-phase + N										
Power Factor	> 0.99										
THDI	≤ 3%										
OUTPUT											
Power factor	0.9										
Voltage	380Vac±1%										
THDU	< 1% with linear load / < 2% with non-linear load										
Synchronous frequency accuracy	< 0.001%										
Battery tolerance	50Hz±0.5 ~ ±2										
Overload	125%,10min										
Phase discrete	120°±1°(100% unbalance load)										
Admissible three-phase voltage unbalance factor	±1%(balance load);±1.5%(100% unbalance load)										
Peak factor	5:1										
Bypass voltage	±5% - ±25%										
Overall efficiency	≥ 98%										
Transfer time	0ms										
Transient dynamic response range	±2%(load changing 0 - 100%)										
Transient dynamic response recovery time	10ms										
STS overload ability	20 times current(100ms)										
Panel display	LCD+LED										
Redundant parallel technology	directly via Parallel board										
Environment											
Operation temperature	-5℃ - +45℃										
Storage temperature	-25℃ - 70℃										
Continuous operation temp.	Max 40℃ , 8hours										
Relative humidity	0- 95%,non-cadency										
Max operation altitude	1500m (no derate)										
Acoustic noise (1m distance)	52dB										
OTHERS											
Anti-interference	EN61000-4-2,3,4,6,8,11 Level III ,EN61000-4-5 Level IV,EN50091-1-1-1.A										
MTBF (system)	> 250,000 hours										
MTTR (Board level maintenance)	10mins										
Surge protector	voltage pulse 10/700us, current pulse 8/20us,20KA										
Protection Level	IP21(IP31 Option)										