

DSP Series Rackmount UPS

1KVA-20KVA

Wire in/out mode: 1/1, 1/3, 3/1, 3/3



DSP Series Rackmount UPS: High frequency On-line double conversion technology; Universal Rackmount and Tower model.
Parallel function: AC output can be connected in parallel. 1+1 redundancy in power module protects the users' data center.
Application field: High power density data center, bank, security, vending machines system, Telecom/VoIP, etc..
Function: clean and persistent power supply, safeguards key equipment and Apps against shutdown, data loss and process interruption caused by power failure.



- Universal Rackmount and Tower model; Rackmount DSP could be embedded in 19 inch standard cabinet.
- N+1 parallel connection is possible, redundant system ensures a more reliable power supply to the users' load.
- Intelligent fan speed regulation. System adjusts cooling and sends out alarm according to the temperature in the cabinet.
- Intelligent battery management. System controls equalisation and float charging, temperature compensation, discharge timing.
- Variety of intelligent communication. Remote monitoring and control , easy management, suitable for unattended operation.
- Variety of alarms. Real time visual alarm status available.
- Acurate performance via DSP control technology. Variety of protection functions. For example, AC over/under voltage, battery input over/under voltage, inrush current, over temperature, output overcurrent, short circuit protection, output over/under voltage, monitor alarm, audible and visual indication, remote notification, etc.

DSP Series Rackmount UPS

DSP11-1KVA/2KVA/3KVA

- Rated power: 1KVA/2KVA/3KVA
- Wire in/out mode: 1/1
- Rack mount and Tower
- S: internal battery
- L: external battery pack



DSP11-6KVA/10KVA

- Rated power: 6KVA/10KVA
- Wire in/out mode: 1/1
- Rack mount and Tower
- Optional battery pack:
Lead acid battery or Lithium battery

DSP-10KVA/15KVA/20KVA

- Rated power: 10KVA/15KVA/20KVA
- Wire in/out mode: 1/1, 1/3, 3/1, 3/3
- Rack mount and Tower
- Optional battery pack:
Lead acid battery or Lithium battery



Lithium battery pack

Model	Capacity (AH)	Dimension (mm)	Weight (kg)	Model DSP	Full load backup time	Half load backup time	Remarks
DUPL2440	24V40AH	430(W)*395(D)*86(H)	10	DSP11-1KVA-24L	55 mins	120 mins	
DUPL4820	48V20AH	430(W)*395(D)*86(H)	11	DSP11-2KVA-48L	24 mins	55 mins	
DUPL7215	72V15AH	430(W)*395(D)*86(H)	12	DSP11-3KVA-72L	17 mins	39 mins	
DUPL24015	240V15AH	430(W)*622(D)*131(H)	30	DSP11-6KVA	34 mins	75 mins	
				DSP11-10KVA	18 mins	40 mins	
DUPL24015	240V15AH	430(W)*622(D)*131(H)	30	DSP-10KVA	40 mins	95 mins	Two battery packs for one UPS (±240V)
				DSP-15KVA	25 mins	55 mins	
				DSP-20KVA	18 mins	40 mins	

Model	DSP11-1KVA-24S DSP11-1KVA-24L	DSP11-2KVA-48S DSP11-2KVA-48L	DSP11-3KVA-72S DSP11-3KVA-72L	DSP11-6KVA	DSP11-10KVA	DSP-10KVA	DSP-15KVA	DSP-20KVA
Power	1KVA	2KVA	3KVA	6KVA	10KVA	10KVA	15KVA	20KVA
DC input								
Voltage	24VDC	48VDC	72VDC	240VDC			±240VDC	
Max charging current	5A			3A	5A	2A	3A	4A
Battery	S:14 mins half load 4 mins full load	S:14 mins half load 4 mins full load	S:14 mins half load 4 mins full load	External battery pack				
	L:external battery	L:external battery	L:external battery					
AC input								
Input rated voltage	1 phase, 3 Wire, 220V					3 phases, 4 Wire, 380V		
Input voltage range	120 Vac~276 Vac			176 Vac~264Vac		304 Vac~456 Vac		
Input current	4A	8A	12A	34A	57A	3*19A	3*28A	3*38A
Input current harmonic	≤ 5%	Rated input and linear load		≤ 3% Rated input and linear load				
Input power factor	0.99 (100% linear load)							
Input frequency	40~70Hz			45~56Hz(output rated linear load)				
Frequency Synchro range	±10%							
Frequency synchro rate	0.5~2Hz/s							
AC output								
AC output voltage	220Vac			220Vac/230Vac/240Vac				
Output power factor	0.9			0.9				
Output active power	900W	1800W	2700W	5.4KW	9KW	9KW	13.5KW	18KW
Output frequency	50HZ			50/60Hz				
Output frequency stability	±0.2			±0.1(battery power)				
Output THDU	3% (linear load)							
Output voltage accuracy	±2%							
Transient range	±5% (load changing 0% - 100% - 0%)							
Transient duration	20ms							
Peak factor	3:1 (rated input)							
Output delay at power-on	5~60s							
Overload	10min 125% rated load							
Overall efficiency	≥ 90%			≥ 93%				
Transfer time Bypass-Inverter	≤ 2ms							
parallel current unbalancedness	5% (> 50% load)							
Communication	RS232/RS485(optional) / LAN (optional)							
Others								
Mounting	Rackmount / tower							
Acoustic noise	≤40dB	≤45dB		≤50dB	≤55dB	≤58dB	≤58dB	≤58dB
MTBF	350000	350000	350000	100000h				
heat-dissipating method	Forced air cooling							
Protection level	IP20							
Enclosure material	Cladding aluminum galvanized , cold-rolled steel sheet, panel: plastic spraying processing							
Dimension (mm)	430(W)*402(D)*88(H)			430(W)*622(D)*88(H)		430(W)*622(D)*132(H)		
Weight (kg)	S: 20kg	S: 22kg	S: 27kg	17kg		25kg		
	L: 10kg	L: 10kg	L: 10kg					

Lead acid battery pack

Model	Capacity (AH)	Dimension (mm)	Weight (kg)	Model DSP	Full load backup time	Half load backup time	Remarks
DUP1204L3	24V24AH	430(W)*395(D)*86(H)	24	DSP11-1KVA-24L	20 mins	50 mins	
DUP1204L2	48V12AH	430(W)*395(D)*86(H)	24	DSP11-2KVA-48L	9 mins	20 mins	
DUP1204L6	72V8AH	430(W)*395(D)*86(H)	24	DSP11-3KVA-72L	4 mins	12 mins	
DUP1208M1	240V8AH	430(W)*622(D)*131(H)	60	DSP11-6KVA	10 mins	23 mins	
				DSP11-10KVA	4 mins	12 mins	
DUP1208M1	240V8AH	430(W)*622(D)*131(H)	60	DSP-10KVA	12 mins	32 mins	Two battery packs for one UPS (±240V)
				DSP-15KVA	6 mins	17 mins	
				DSP-20KVA	4 mins	12 mins	