

Switch 10-20kVA

Series Specification

Specification table for Switch Series, UPS systems 10–20kVA.

For models:

SWT100B/C

SWT200B/C

Tech Support

Need help? Our UK-based experts are available 9am–5pm, Monday to Friday.

Email: hello@neotec.co.uk **Website:** www.neotec.co.uk

		SWT100B	SWT100C	SWT200B	SWT200C
POWER RATING					
VA/Watt	10kVA/kW		20kVA/kW		
EFFICIENCY					
Line mode	95%				
ECO mode	98%				
INPUT PERFORMANCE					
Voltage range	160-300V (273-520) 100% load, 100-160V (173-273) derating to 50% load linearly				
Rated frequency	50Hz/60Hz				
Frequency range	40Hz-70Hz (45Hz-55Hz, 54Hz-66Hz at load>60% and 1 phase in 1 phase out)				
PF	>0.99				
THDI	<5%				
OUTPUT PERFORMANCE					
Rated voltage	220/230/240V or 380/400/415V				
Rated frequency	50Hz/60Hz				
Maximum PF	PF = 1				
Voltage accuracy	±1%				
THDv	<1% linear load; <5% nonlinear load				
Transfer time	0ms (2ms at ECO+ ->Inverter)				
Crest ratio	Max 3:1				
Overload	100%<load≤105% continuous 105%< load ≤125% for 10 minutes 125<load≤150% for 1 minute >150% for 500ms				
CVCF mode	Yes (derating to 60% load at 1 phase in and 1 phase out mode)				
CONNECTIONS					
Input socket	Hardwired Terminals				
Output socket	Hardwired Terminals				
Load segment control	N/A				
BATTERY & POWER PROTECTION					
Short-circuit protection: Normal/battery mode	30A for 10±1 cycle - 1ph / 90A for 10±1 cycle - 3ph		74A for 10±1 cycle - 1ph / 222A for 10±1 cycle - 3ph		
Battery: Voltage	192-240VDC		384-480VDC		
Battery: Capacity (AH)	20 × 12V / 9Ah	N/A	40 × 12V / 9Ah	N/A	
Maximum EBM quantity	6				
EBM auto detection	No				
Battery hot-swappable	No				

SWT100B		SWT100C	SWT200B	SWT200C
CHARGING				
Charging method	Optimised Battery Management (OBM)			
Charging current	0-13A			
Recharging time	3h to 90%	N/A	3h to 90%	N/A
USER INTERFACE & COMMUNICATION (HMI)				
Display	Colour touch LCD			
Language	Multi-Language			
USB	USB 2.0 with HID power device			
RS232	Yes (DB9)			
Dry in/out	1 programmable dry in; 1 programmable dry out			
RPO	Yes			
Intelligent slot	Yes			
Network card	Optional, NEONET001 card			
Modbus card	Optional, NEOMOD001 card			
Dry contactor card	Optional, NEOREL001 card			
Wireless module	Optional			
IoT ethernet port	RJ45			
Monitor software	WinPower, WinPower View APP			
PHYSICAL ATTRIBUTES				
Dimensions: W x D x H (mm)	350x730x890			
Weight (kg)	106	53	160	55
IP protection level	IP20			
Wheels	Yes			
ENVIRONMENT				
Operating temperature	0-50°C (power derating to 50% @40-50°C)			
Relative humidity	0-95%			
Operating altitude	0~4000m (the load derating 1 % every up 100m at 1000~4000m)			
Acoustic noise	<55dB at front 1m			
CERTIFICATION & STANDARDS				
Certification	CE, IEC/EN 62040			
EMI: Conduction/Radiation	C3			
EMS: ESD	IEC/EN 61000-4-2			
EMS: RS	IEC/EN 61000-4-3			
EMS: EFT	IEC/EN 61000-4-4			
EMS: Surge	IEC/EN 61000-4-5			

	SWT100B	SWT100C	SWT200B	SWT200C
ACCESSORIES				
Input power cable			N/A	
Output power cable			N/A	
EBM cable			Yes (in EBM)	
USB cable			Yes	
RS232 cable			Optional	
Rail kit			N/A	
Tower feet			N/A	
Rack ear			N/A	
Manual (English)			Yes	