

SCALA

Scala Plus Single Phase UPS Series



+ Affordable + Reliable + Efficient

Single Phase Online Double Conversion UPS 1000 – 10.000 VA

The Scala Plus by Scala Power Corporation provides high-density, double-conversion, online power protection for servers, voice/data networks, medical labs, and light industrial applications.

When business-critical systems require runtime in hours, not minutes, Scala Plus can be configured with multiple battery packs to meet aggressive runtime demands.

Conserving valuable space by providing Tower and Rack-Tower Convertible, Scala Plus provides value to customers with demanding power conditions, including a very wide input voltage window, extremely tight output voltage regulation, frequency regulation, internal bypass, and input power factor correction.

For Product Enquiry
email to info@scalapower.com | www.scalapower.com

Scala Plus

Single Phase UPS Series

Key Feature

High power density

More real power in Watts , 0.9pf on 1000-3000 VA , Unity (pf=1) on 6000-10.000 VA

True Online Double Conversion

Continuously monitor and regulating both voltage and frequency.

LCD display with backlight

Intuitive interface provides detailed and accurate information with ability to configure locally.

Two-years warranty

On electronics and battery to

provide peace of mind.

Wide Input voltage window

Reliable for harsh and severe power supply condition

Fan speed automatic control

Balance with variable load , maintaining operating temperature of the system.



PLUS 6-10K



PLUS 1-10KRT



Technical specification 1000 – 3000 VA

	PLUS 1K	PLUS 2K	PLUS 3K	PLUS 1KRT	PLUS 2KRT	PLUS 3KRT
TOPOLOGY			True Online Double Conversion			
FORM FACTOR	Tower			Rack - Tower Convertible		
INPUT						
Cold Start	YES, default frequency=50Hz or settable					
Acceptable Input Voltage	110VAC~288VAC					
Phase	Single phase in, single phase out					
Input Power Factor	≥0.97					
Input Frequency Range	40~70Hz					
OUTPUT						
Frequency adaptable	Settable					
Power						
-Power(kVA) max	1	2	3	1	2	3
-Power(kW) max	0.9	1.8	2.7	0.9	1.8	2.7
Output Voltage						
-Waveform(Bat. Mode)	Pure Sine Wave					
-Nominal voltage	200/208/220/230/240VAC					
-Voltage regulation	± 1 %					
-Transient response	≤5% (0% - 100%-0%)					
-Voltage distortion	≤2% THD, linear load					
Output Frequency						
-Synchronization range	±5Hz default					
-Battery mode	(50±0.1) Hz default					
Transfer Time						
-Line mode to battery mode	0					
-Inverter to bypass	2ms					
Efficiency						
-Line mode with battery full charged	90% @ Full load					
-ECO mode	97.0%					
-Battery mode	<u>83%@100% load</u>	<u>87%@100% load</u>	<u>87%@100% load</u>	<u>83%@100% load</u>	<u>87%@100% load</u>	<u>87%@100% load</u>
Noise(1m away)	<43dB	<45dB	<45dB	<43dB	<45dB	<45dB
Overload Capability(Inverter)	105%~130%: Transfer to bypass after 1 mins. 150%: Transfer to bypass after 30s					
Overload Capability(Battery Mode)	105%~130%:shutdown after 10s 150%:shutdown after 5s <130%: Long time					
Overload Capability (Bypass Mode)	>130%&<150%:Shutdown after 10min >150%&<180%:Shutdown after 5 seconds					
Crest Ratio	3:1					
BATTERY						
Rating/Type	12VDC/7Ah	12VDC/7Ah	12VDC/7Ah	12VDC/7Ah	12VDC/7Ah	12VDC/7Ah
Quantity	3	6	8	3	6	8
DC Voltage	36VDC	72VDC	96VDC	36VDC	72VDC	96VDC
Back-up Time	10mins @70% load	10mins @70% load	10mins @70% load	10mins @70% load	10mins @70% load	10mins @70% load
Charger						
-Charging current (max)	1A					
-Charging time	8h recharge to 90%					
INDICATOR & ALARM						
-Display	LED+LCD					
-Alarm	two short one long			Sounding every 2 seconds		
-Fault	Continuous beeping			Continuous beeping		
DIMENSION						
-W\D\H (mm)	144*353*228	190*375*336	190*427*336	438*426*86(2U)	438*476*173(4U)	438*476*173(4U)
-Net Weight (KG)	12	21	25.6	13.5	28	33
Color	Black default					

Technical specification 6000 – 10000 VA

	PLUS 6K	PLUS 10K	PLUS 6KRT	PLUS 10KRT
Topology	True Online Double Conversion			
Form Factor	TOWER		RACK TOWER Convertible	
INPUT				
Cold Start	YES			
Acceptable Input Voltage	110VAC~288VAC			
Phase	Single phase in, single phase out		Single phase in, single phase out	
Transfer Voltage Range	200VAC/208VAC(0.9), 220VAC/230VAC/240VAC(1)			
Input Current				
Input Power Factor	≥0.99			
Input current distortion	<4%			
Input Frequency Range	40~70Hz			
OUTPUT				
Frequency adaptable	Settable		Settable	
Power rating	6 kVA / 6 kW	10 kVA / 10 kW	6 kVA / 6 kW	10 kVA / 10 kW
Output Voltage	Pure Sine Wave		Pure Sine Wave	
-Waveform(Bat. Mode)	Pure Sine Wave			
-Nominal voltage	220VAC/230VAC/240VAC			
-Voltage regulation	± 1 %			
-Voltage distortion	<1% THD, linear load			
Output Frequency	±5Hz default, settable			
-Synchronization range	(50±0.1) Hz default			
-Battery mode				
Transfer Time				
-Line mode to battery mode	0ms			
Efficiency				
-Line mode	95.0%			
-ECO mode	98.0%			
Noise(1m away)	<58dB			
Overload Capability(Inverter)	105% to 110% : Transfer to bypass after 10 mins. 111% to 125% : Transfer to bypass after 1 mins. 126% to 150%: Transfer to bypass after 30s less than 125%: long time running 126% to 130% :Shutdown in 5 mins 131% to 150% :Shutdown in 1 mins > 150% :Shutdown in 200 ms			
Overload Capability (Bypass Mode)	3:1			
Crest Ratio	3:1			
BATTERY				
Rating/Type	12VDC/7Ah	12VDC/9Ah	12VDC/7Ah	12VDC/9Ah
DC Voltage	192VDC default, settable		192VDC default, settable	
Back-up Time	10min @ typical load			
Charger				
-Charging current (max)	1A, settable			
-Charging time	8h recharge to 90%			
Leakage current	<3mA			
Indicator & Alarm				
-Display	LED+LCD			
Inteface				
-Smart RS232	Standard Cable support			
-RS485(option)	Installed in the intelligent slot			
-SNMP(option)	Power Managment from SNMP Manager and Web Browser			
PHYSICAL				
-WxDxH (mm)	190*426*705	190*485*705	440*660*172	440*660*172