

Premium featured ONLINE UPS



CLIPPERS SERIES



Data Center



Genset



Batt.Charger



Emergency Power Backup

Clippers series is a premium featured online double-conversion UPS with Rack/Tower design and high efficiency to reduce customer's TCO (total cost of ownership).

The hot-swappable battery in the battery pack increases system reliability and reduces MTTR; the parallel function is designed for future equipment expansion

Its special firmware design can adapt various applications like laser printer, ultrasound device and supporting long back-up time with battery monitoring.

GENERAL FEATURES

- True double conversion
- Output power factor=1
- Output voltage regulation < 1%
- Higher output crest ratio 3:1
- 50Hz/60Hz frequency converter mode
- Programmable power management outlets
- Emergency power off function (EPO)
- Hot swappable battery design
- ECO mode for energy saving
- Support for laser printers and ultrasound systems
- Full time over-voltage cut-off and surge protection
- High power factor charger with low ripple current
- Low input THDi to reduce power system pollution
- Adjustable charging current via LCD panel
- Smart battery charger design to optimize battery performance
- Genset compatible



FSP GROUP

FORTRON/SOURCE

DIREKTRONIK

Dataprodukter utöver det vanliga



TECHNICAL SPECIFICATIONS

MODEL	CLIPPERS RT 6KL	CLIPPERS RT 10KL
PHASE	Single phase with ground	
CAPACITY	6000 VA / 6000 W	10000 VA / 10000 W
INPUT		
Voltage	220/230/240 VAC	
Voltage Range	110-300 VAC ± 3% @ 50% load 176-300 VAC ± 3% @ 100% load	
Frequency Range	46~54 or 56~64 Hz	
Harmonic Distortion(THDi)	< 6% (50% load) < 4% (100% load)	
Power Factor(@100% load)	≥ 0.99 @ nominal voltage	
OUTPUT		
Voltage	220/230/240 VAC	
AC Voltage Regulation (Batt. Mode)	± 1%	
Frequency Range (Synchronized Range)	46~54 Hz or 56~64 Hz	
Frequency Range (Batt. Mode)	50 Hz ± 0.1 Hz or 60Hz ± 0.1 Hz	
Harmonic Distortion	Linear Load	< 1%
	Non-linear load	< 4%
Transfer Time	AC Mode to Batt. Mode	0 ms
	Inverter to Bypass	0 ms
Waveform	Pure sine wave	
EFFICIENCY		
AC Mode@full charged battery	94.5%	
ECO Mode@full charged battery	98.5%	
Battery Mode	92.0%	
BATTERY		
Battery Type	depend on application	
Numbers	16 ~ 20	16 ~ 20
Charging Voltage(Vdc ± 1%)	218.4~273	218.4~273
Charging Current(Default 2A)	4 A	
PHYSICAL		
Dimension, D x W x H (mm)	610 x 438 x 88	
Net Weight (without battery kgs)	17	20
Net Weight (with battery kgs)	17	20
Communication Interface	RS232 & USB	
OPERATING ENVIRONMENT		
Humidity(non-condensing)	20-95 % RH @ 0- 40°C	
Noise Level (@ 1 Meter)	≅ 55 dBA	≅ 58 dBA
Altitude(Max 3000m)	10% de-rating for over 1000m	
OPERATING ENVIRONMENT		
Smart RS-232/USB	Supports Windows® 2000/2003/XP/Vista/2008/7/8/10, Linux and MAC	
SNMP(Optional)	Power management from SNMP manager and web browser	
STANDARD		
EMC/safety	EMC EN62040-2 C2 for CE models	

* Product specifications are subject to change without further notice

Backup Time Table for Custos Series

Backup Time with Load (Min)

20109131 CLIPPERS RT 6KL	Battery Bank	Backup Time with Load (Min)				
		25%	50%	75%	100 %	
	+1 BB-240/9RT (20 x 9AH Batteries)	43.0	20.0	12.9	8.0	
	+2 BB-240/9RT (40 x 9AH Batteries)	99.0	46.0	31.7	22.7	
	+3 BB-240/9RT (60 x 9AH Batteries)	150.0	71.0	43.5	30.4	
<hr/>						
20109132 CLIPPERS RT 10KL	Battery Bank	25%	50%	75%	100 %	
		+1 BB-240/9RT (20 x 9AH Batteries)	22.0	9.0	6.0	3.0
		+2 BB-240/9RT (40 x 9AH Batteries)	54.0	23.0	16.9	12.0
	+3 BB-240/9RT (60 x 9AH Batteries)	88.0	38.0	23.0	16.0	

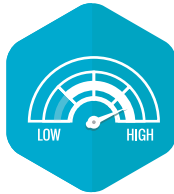




Higher load power capacity



Super Charger 12A



High Efficiency 96%



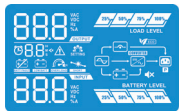
Emergency Power Backup



Zero transfer time

User-friendly LCD display

The front panel display can be easily shifted through LCD setting to suit the installation format



Programmable outlet

Prioritizing connected equipment's required backup time.



Programmable Outlets (P1) connect to non-critical devices

CV / CF Mode

Providing constant voltage and constant frequency



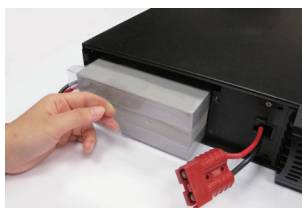
Special application

Compatible with genset, ISO Transformer And motor-driven equipment.



Hot-Swappable battery

Battery replacement can be done in the battery pack without turning off the UPS from the operation



Parallel option

Parallel ability up to 3 units to reach maximum 30KW Only for model Clippers RT 6KL & Clippers RT 10KL



20101168

BB-240/09RT

Battery Type: 12V/9Ah

Battery Number: 20pcs

Battery Voltage (VDC): 240



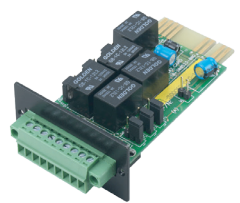


Dimension (DxWxH): 580 X 438 X 132mm (3U)

Net Weigh: 65kg

Box contents: battery pack, battery pack cable, mounting ears, tower stands



Network Management

Network Management			
SNMP card SNMP box	20101157 MPF0010200GP 31-011163-07G		<ol style="list-style-type: none"> 1. Allows control and monitoring of UPS 2. Real-time dynamic graphs of UPS data 3. Warning notifications via audible alarm, broadcast, mobile messenger, e-mail
Modbus card	TBD S98-000051-07091G		<ol style="list-style-type: none"> 1. Real-time control and monitoring of UPS 2. Supports Modbus RTU protocol 3. Provides MODBUS functions including read Holding Registers and write Registers 4. Provides surge protection
Relay card	20109145 MPF0007500GP		<ol style="list-style-type: none"> 1. The AS400 communication card provides contact closures for remote monitoring UPS. 2. To meet different application requirement, the AS400 card is capable of selection the status of the dry-contact signal (active close or active open) by setting jumper.
Environment Monitor Device	TBD 98-000069-00G		<ol style="list-style-type: none"> 1. Measure temperatures between 0 to 100°C with an accuracy of ±1.5°C 2. Measure relative humidity between 10 to 90% RH with an accuracy of ±3% Optional smoke alarm available
Automatic Transfer Switch	TBD MPF0013500GP		<ol style="list-style-type: none"> 1. Max output power 10 A for IEC-C13 outlets, 16 A for IEC-C19 outlet 2. Transfer time 9-12ms (Typical), 16ms max.