



PHT 1KVA-3KVA 1:1



PHT1101



PHT1102



PHT1103



PHT1101B



PHT1102B



PHT1103B

Technical Specification

» 1KVA-3KVA 1:1

High Frequency Tower UPS						
MODEL	PHT1101	PHT1102	PHT1103	PHT1101B	PHT1102B	PHT1103B
CAPACITY	1000 VA / 800 W	2000 VA / 1600 W	3000 VA / 2400 W	1000 VA / 800 W	2000 VA / 1600 W	3000 VA / 2400 W
Battery Voltage	36V	72V		36V	72V	
Size, D X W X H (mm)	282 X 145 X 220	397 X 145 X 220		397 X 145 X 220		419 X 190 X 318
Net Weight(kgs)	4.1	6.8	7.4	13	26	28
Input						
Voltage Range	Low Line Transfer	160VAC/140VAC/120VAC/110VAC ± 5%				
	Low Line Comeback	175VAC/155VAC/135VAC/125VAC ± 5%		168 VAC / 148VAC / 128 VAC / 118 VAC ± 5 %		
	High Line Transfer	300 VAC ± 5 %				
	High Line Comeback	290 VAC ± 5 %				
Frequency Range	40Hz ~ 70 Hz					
Phase	Single phase with ground					
Power Factor	≥ 0.99 @ nominal voltage (input voltage)					
Output						
Output voltage	200/208/220/230/240VAC					
AC Voltage Regulation	± 1% (Batt. Mode)					
Frequency Range (Synchronized Range)	47Hz ~ 53 Hz @ 50Hz or 57Hz ~ 63 Hz @ 60Hz					
Frequency Range (Batt. Mode)	50 Hz ± 0.25 Hz or 60Hz ± 0.3 Hz					
Overload	105%~110%: UPS shuts down after 10 min at battery mode or transfer to bypass when the utility is normal 110%~130%: UPS shuts down after 1min at battery mode or transfer to bypass when the utility is normal >130%:UPS shuts down after 3seconds at battery mode or transfer to bypass when the utility is normal			100%~110%:audible warning 110%~130%: UPS shuts down in 60 seconds at battery mode or transfer to bypass when the utility is normal >130%:UPS shuts down immediately at battery mode or transfer to bypass mode when the utility is normal		
Current Crest Ratio	3:1					
Harmonic Distortion	≤3 % THD (Linear Load); ≤ 5% THD (Non-linear Load)			≤3 % THD (linear load); ≤ 6 % THD (non-linear load)		
Transfer Time	AC Mode to Batt. Mode	0 ms				
	Inverter to Bypass	4 ms				
Waveform (Batt. Mode)	Pure Sine Wave					
Efficiency						
AC Mode	88%	89%	90%	87%	90%	
Battery Mode	83%	87%	88%	83%	87%	89%
Battery						
Battery Type	Depending on applications			12V7AH	12V7AH	12V9AH
Battery Numbers	Depending on applications			3	6	6
Recharge Time	Depending on applications			4 hours recover to 90% capacity		
Charging Current	1.0A/2.0A/4.0A/6.0 A			1.0 A (max.)		
Charging Voltage	41.0VDC ± 1%	82.1 VDC ± 1%	82.1 VDC ± 1%	41.0VDC ± 1%	82.1VDC ± 1%	82.1VDC ± 1%
Environment						
Operation Humidity	0-90 % RH @ 0- 40° C (non-condensing)					
Noise Level	Less than 50dBA @ 1 Meter					
Management						
Smart RS-232 or USB	Windows® 2000/2003/XP/Vista/2008 . Windows® 7/8. Linux. Unix. MAC					
Optional SNMP	Power management from SNMP manager and web browser					

• Remarks:Products specifications are subject to change without notice.



PHT1106 PHT1106B PHT1110B PHT1110

PHT1106

PHT1106

Technical Specification

» 6KVA~10KVA 1:1

UPS High Frequency Tower UPS				
MODEL	PHT1106	PHT1110	PHT1106B	PHT1110B
CAPACITY	6000 VA / 4800 W	10000 VA / 8000 W	6000 VA / 4800 W	10000 VA / 8000 W
Battery Voltage	192V			
Size, D X W X H (mm)	369 x 190 x 318	442x 190 x 318	369 x 190 x 688	442x 190 x 688
Net Weight(kgs)	21	23	72	82
Input				
Voltage Range	Low Line Transfer	110VAC \pm 3% at 50%Load; 176VAC \pm 3% at 100% Load		
	Low Line Comeback	Low Line Loss Voltage+10V		
	High Line Transfer	300 VAC \pm 3 %		
	High Line Comeback	High Line Loss Voltage-10V		
Frequency Range	46Hz~54 Hz@50Hz or 56Hz~64 Hz@60Hz			
Phase	Single phase with ground			
Power Factor	\geq 0.99 at 100% Load			
Output				
Output voltage	208/220/230/240VAC			
AC Voltage Regulation	\pm 1%			
Frequency Range (Synchronized Range)	46Hz~54 Hz @50Hz or 56Hz~64 Hz @60Hz			
Frequency Range (Batt. Mode)	50Hz \pm 0.1Hz or 60Hz \pm 0.1Hz			
Overload	AC Mode	100%~110%: 10min、110%~130%: 1min、>130% :1sec		
	Battery Mode	100%~110%: 30sec、110%~130%: 10sec、>130% : 1sec		
Current Crest Ratio	3:1 max			
Harmonic Distortion	\leq 3%@100% Linear Load; \leq 6% @ 100% Non-linear Load			
Transfer Time	AC Mode to Batt. Mode	0 ms		
	Inverter to Bypass	0 ms		
Waveform (Batt. Mode)	Pure Sine Wave			
Efficiency				
AC Mode	>89%	>90%	>89%	>90%
Battery Mode	>88%	>89%	>88%	>89%
Battery				
Battery Type	Depending on applications		12V7AH	12V9AH
Battery Numbers	Depending on applications		16	
Recharge Time	Depending on applications		9hours recover to 90% capacity	
Charging Current	Default : 4A \pm 10%; Max.: 6A \pm 10%		Default : 1A \pm 10%; Max.: 2A \pm 10%	
Charging Voltage	218.4VDC \pm 1%			
Environment				
Operation Temperature	0 ~ 40° C (battery life cycle will be shorten when temperature is above 25° C)			
Operation Humidity	<95 % and non-condensing			
Operation Altitude	<1000m			
Acoustic Noise Level	<55dB@1Meter	<58dB@1Meter	<55dB@1Meter	<58dB@1Meter
Management				
Smart RS-232 or USB	Windows 2000/2003/XP/Vista/2008、Windows 7/8、Linux、Unix、MAC			
Optional SNMP	Power management from SNMP manager and web browser			

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