CHAMP SERIES

PF0.9 Online UPS

1KVA-10KVA

Applications:







Computer

Compact & Small-Scale Online UPS Solutions

Champ Series is the high power density double-conversion online UPS with a output power factor 0.9. It's designed in small cabinet with microprocessor controller.

Champ Series also have USB and RS-232 communication ports as standard, with a built-in intelligent slot for additional adapters, protocol converters and related contact cards.

GENERAL FEATURES

True double-conversion Microprocessor control optimizes reliability Input power factor correction >=0.99 Output power factor 0.9 Wide input voltage (130 V - 280 V)Converter mode available

ECO mode for energy saving only available for 1-3 K models Generator compatible

Smart SNMP works well with either USB or RS-232

together display allows easy monitoring and access of UPS status

Adjustable battery numbers only available for 6 K/10 K models



Champ Series

TECHNICAL SPECIFICATIONS

MODEL	CH-1101TS	CH-1102TS	CH-1103TS	CH-1106TS	CH-1110TS		
PHASE			Single phase with ground				
CAPACITY	1000 VA / 900W	2000 VA / 1800W	3000 VA / 2700 W	6000 VA / 5400 W	10000 VA / 9000 W		
INPUT							
Nominal Voltage		208/220/230/240 VAC		208/220/2	30/240 VAC		
Veltere Denne	120	-300 VAC (Based on load at !	50%)	110-300 VAC (Base	d on load at 50%)		
Voltage Range	180-	280 VAC (Based on load at 1	.00%)	176-300 VAC (Based			
Frequency Range		40Hz ~ 70 Hz		46~54 Hz	or 56~64 Hz		
Power Factor		≧	0.99 @ Nominal Voltage (100	% Last)			
OUTPUT							
Nominal Voltage		208/220/230/240 VAC		208/220/230/240 VAC			
AC Voltage Regulation	±1% ±1%						
Frequency Range(Synchronized Range)		47~ 53 Hz or 57 ~ 63 Hz		46~54 Hz c	or 56~64 Hz		
Frequency Range(Batt. Mode)		50 Hz or 60 Hz + 0.5%		50 Hz or 60	Hz + 0.1 Hz		
Current Crest Ratio	50 Hz or 60 Hz ± 0.5% 50 Hz or 60Hz ± 0.1 Hz 3:1 3:1						
		\leq 3 % THD (Linear Load),		\leq 3 % THD (Linear Load),			
Harmonic Distortion		≦6 % THD (Non-linear Load	$\leq 5 \%$ THD (Non-linear Load)				
Transfer AC mode to Battery mode		Zero		Ze	ero		
Time Inverter to Bypass		4 ms (Typical)			ero		
Waveform (Batt. Mode)			Pure Sinewave				
EFFICIENCY			- are entertaile				
Line Mode	88%	89%	90%	92%	93%		
Battery Mode	83%	85%	88%	90%	91%		
BATTERY							
Battery Type	12V / 9 Ah	12V / 9 Ah	12 V / 9 Ah	12 V / 9 Ah	12 V / 9 Ah		
Numbers	2	4	6	16	16		
Typical Recharge Time		4	hours recover to 90% capaci	ty			
Charging Current (max.)	1.0 A	1.0 A	1.0 A	1.0 A	1.0 A		
Charging Voltage	27.4 VDC ± 1%	54.7 VDC ± 1%	82.1 VDC ± 1%	218.4±1%	218.4±1%		
INDICATORS							
LCD Display		Last level, Battery level, A	C mode, Battery mode, Bypas	s mode, and Fault indicators			
ALARM							
Battery Mode	Sounding every 4 seconds						
Low Battery			Sounding every second				
Overload			Sounding twice every secon	d			
Fault			Continously sounding				
AC INPUT & OUTPUT CONNECTORS			continously sounding				
AC Input Connector	1 x IEC 320 C14	1 x IEC 320 C14	1 x IEC 320 C20				
AC Output Connector	3 x CEE 7/4 (Schuko)	3 x CEE 7/4 (Schuko)	4 x CEE 7/4 (Schuko)	Termir	nal block		
STANDARDS	, , , ,	, , , ,	, , , ,				
Safety / EMC		IEC 62	040-1 (safety) / IEC-62040-2 (E	IMC) / CE			
PHYSICAL							
				UPS Unit:	UPS Unit:		
			421 x 190 x 318	369 x 190 x 688	442 x 190 x 688		
Dimension D x W x H(mm)	292 v 145 v 220	$207 \times 1/5 \times 770$	421 X 190 X 910	Battery Pack:	Battery Pack:		
Dimension, D x W x H(mm)	282 x 145 x 220	397 x 145 x 220					
Dimension, D x W x H(mm)	282 x 145 x 220	397 x 145 x 220		369 x 190 x 318	442 x 190 x 318		
Dimension, D x W x H(mm) Net Weight (kgs)	282 x 145 x 220 9.8	397 x 145 x 220 17.0	27.6	369 x 190 x 318 UPS Unit: 61	442 x 190 x 318 UPS Unit: 66		
Net Weight (kgs)			27.6	369 x 190 x 318	442 x 190 x 318		
Net Weight (kgs) ENVIRONMENT	9.8	17.0		369 x 190 x 318 UPS Unit: 61 Battery Pack:49	442 x 190 x 318 UPS Unit: 66		
Net Weight (kgs)	9.8			369 x 190 x 318 UPS Unit: 61	442 x 190 x 318 UPS Unit: 66 Battery Pack:49.5		
Net Weight (kgs) ENVIRONMENT	9.8 20-90	17.0	nsing)	369 x 190 x 318 UPS Unit: 61 Battery Pack:49 0-95% RH @ 0-50°C	442 x 190 x 318 UPS Unit: 66 Battery Pack:49.5 0-95% RH @ 0-40°C (non-condensing)		
Net Weight (kgs) ENVIRONMENT Operation Humidity	9.8 20-90	17.0 % RH @ 0-40°C (non-conde	nsing)	369 x 190 x 318 UPS Unit: 61 Battery Pack:49 0-95% RH @ 0-50°C (non-condensing)	442 x 190 x 318 UPS Unit: 66 Battery Pack:49.5 0-95% RH @ 0-40°C (non-condensing)		
Net Weight (kgs) ENVIRONMENT Operation Humidity Noise Level	9.8 20-90	17.0 % RH @ 0-40°C (non-conde Less than 50 dBA @ 1 Meter	nsing)	369 x 190 x 318 UPS Unit: 61 Battery Pack:49 0-95% RH @ 0-50°C (non-condensing) Less than 50 dBA @ 1 Meter	442 x 190 x 318 UPS Unit: 66 Battery Pack:49.5 0-95% RH @ 0-40°C		

*1-3KVA: Derate to 80% of capacity in Frequency converter mode and to 80% when the output voltage is adjusted to 100/200/208VAC. 6-10KVA: Derate to 60% of capacity in Frequency converter mode and to 90% when the output voltage is adjusted to 208VAC. Product specifications are subject to change without further notice.

Backup Time Table for Champ Series Backup Time with Load (Min) **Battery Bank** 25% 50% 75% 100 % CH 1101TS Internal battery only (24V:12V-9Ah x 2) 24.5 10.0 5.5 3.0 CH 1102TS Internal battery only (48V:12V-9Ah x 4) 24.5 10.0 5.5 3.0 CH 1103TS Internal battery only (72V:12V-9Ah x 6) 24.5 10.0 5.5 3.0 CH 1106TS Internal battery (192V:12V-9Ah x 16) 34.0 14.2 8.5 5.5 + 1 BB-192 / 09T (16 x 9Ah Batteries) 77.0 20.6 34.0 14.0 CH 1110TS Internal battery (192V:12V-9Ah x 16) 18.0 7.2 3.5 2.3 + 1 BB-192 / 09T (16 x 9Ah Batteries) 18.0 42.0 11.0 7.1

CE

Champ Series

TECHNICAL SPECIFICATIONS

MODEL		CH-1101RS	CH-1102RS	CH-1103RS	CH-1106RL	CH-1110RL	
PHASE				Single phase with ground			
CAPACIT	Υ	1000 VA / 900W	2000 VA / 1800W	3000 VA / 2700 W	6000 VA / 5400 W	10000 VA / 9000 W	
NPUT							
Nominal	Voltage		208/220/230/240VAC		208/220/	230/240VAC	
Voltage F	lange		120-300 VAC at 50% load 180-300 VAC at 100% load			3% at 50% Load 3% at 100% Load	
Frequenc	cy Range		40Hz ~ 70 Hz			46~54 Hz or 56~64 Hz	
Power Fa			≥ 0.9	9 @ Nominal Voltage (100	% Last)		
OUTPUT							
Vominal	Voltage		208/220/230/240VAC		208/220/2	230/240 VAC	
AC Volta	ge Regulation		± 1%		± 1%		
requent	cy Range(Synchronized Range)		47~ 53 Hz or 57 ~ 63 Hz		46~54 Hz or 56~64 Hz		
Frequenc	cy Range(Batt. Mode)		50 Hz ± 0.25 Hz or 60Hz ± 0.3 Hz		50 Hz or 60Hz ± 0.1 Hz		
Current (Crest Ratio		3:1		3:1		
Harmoni	c Distortion	≦ 3 % THD (Linear Load), ≤ 6 % THD (Non-linear Load)				(Linear Load), Non-linear Load)	
Transfer	AC mode to Battery mode		Zero		Z	Zero	
Time	Inverter to Bypass		4 ms (Typical)		Z	Zero	
Waveform	m (Batt. Mode)			Pure Sinewave			
EFFICIEN							
Line Mod	le	88%	89%	90%	92%	93%	
Battery N	Node	83%	87%	88%	90%	91%	
BATTER	1						
	Battery Type	12V / 9 Ah	12V / 9 Ah	12 V / 9 AH			
	Numbers	2	4	6			
Standard Model	Typical Recharge Time		4 hours recover to 90% capacity		N/A		
violaci	Charging Current (max.)	1.0 A	1.0 A	1.0 A			
	Charging Voltage	27.4 VDC ± 1%	54.7 VDC ± 1%	82.1 VDC ± 1%			
	Battery Type				Depending on the capac	ity of external batteries	
Long-run	Numbers in string	16-20pcs (Adjustable)					
Model	Charging Current (max.)		N/A			only available for 16pcs batter	
Charging Voltage					218.4 VDC ± 1% (Based on 16pcs batteries		
NDICAT	ORS						
LCD Disp	lay		Last level, Battery level, AC m	ode, Battery mode, Bypass	mode, and Fault indicators	5	
ALARM							
Battery N	Node			Sounding every 4 seconds			
Low Batt	ery			Sounding every second			
Overload			Sc	ounding twice every second	1		
Fault				Continously sounding			
C INPUT	& OUTPUT CONNECTORS						
AC Input	Connector	1 x IEC 320 C14	1 x IEC 320 C14	1 x IEC 320 C20	Terminal block		
AC Outpu	t Connector	6 x IEC 320 C13	6 x IEC 320 C13	6 x IEC 320 C13	Terminal block		
STANDA	RDS						
Safety / E	MC		IEC 62040)-1 (safety) / IEC-62040-2 (E	MC) / CE		
PHYSICA	L						
Standard	Dimension, D x W x H(mm)	310 x 438 x 88	410 x 438 x 88	630 x 438 x 88	N/A	N/A	
Model	Net Weight (kgs)	12	19	29.3	N/A	N/A	
Long-run Model	Dimension, D x W x H(mm)		N/A		UPS Unit: 530x438x88 [2U] Battery Pack: 668x438x88 [2U]	580 x 438 x 133[3U]	
	Net Weight (kgs)				UPS Unit: 15 Battery Pack:48	18	
ENVIRON							
Operation Humidity		20-90% RH @ 0-40°C (non-condensing)				°C (non-condensing)	
Noise Le			Less than 50 dBA @ 1 Meter		Less than 50 dBA @ 1 Meter	Less than 58 dBA @ 1 Met	
ANACE	MENT		C	2000/2002///5/// . /2002	/2/0/40 1:00		
			Supports Windows	2000/2003/XP/Vista/2008	UVX/TO LIDUX and MAC		
	-232 / USB			ement from SNMP manage			

*1K-3K: Derate to 80% of capacity in Frequency converter mode or when the output voltage is adjusted to 208VAC. 6K/10K: Derate to 60% of capacity in Frequency converter mode and to 80% when the output voltage is adjusted to 208VAC. Product specifications are subject to change without further notice

Backup Time Table for Champ Series

		Backup Time with Load (Min)				
	Battery Bank	25%	50%	75%	100 %	
CH 1101RS	Internal battery only (24V:12V-9Ah x 2)	24.5	10.0	5.5	3.0	
CH 1102RS	Internal battery only (48V:12V-9Ah x 4)	24.5	10.0	5.5	3.0	
CH 1103RS	Internal battery only (72V:12V-9Ah x 6)	24.5	10.0	5.5	3.0	
CH 1106RL	+ 1 BB-192 / 09R (16 x 9Ah Batteries)	34.0	14.2	8.5	5.5	
CH 1110RL	+ 1 BB-192 / 09R (16 x 9Ah Batteries)	18.0	7.2	3.5	2.3	

CE