

CHAMP SERIES



PF0.9 Online UPS

1KVA-3KVA

Applications:



ECO mode



Pure sinewave



Generator compatible



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 relate 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

Generator compatible

Smart SNMP works well with either USB or RS-232 together display allows easy monitoring and access of UPS status

TECHNICAL SPECIFICATIONS

MODEL	CH-1101-TS	CH-1102-TS	CH-1103-TS
PHASE	Single phase with ground		
CAPACITY	1000 VA / 900W	2000 VA / 1800W	30000 VA / 2700 W
INPUT			
Voltage Range	Low Line Transfer	160 VAC / 140 VAC / 120 VAC / 110 VAC \pm 5 % (based on Last percentage 100%- 80 % / 80 %- 70 % / 70- 60 % / 60 %- 0)	
	Low Line Comeback	168 VAC / 148 VAC / 128VAC / 118 VAC \pm 5 % (based on Last percentage 100%- 80 % / 80 %- 70 % / 70- 60 % / 60 %- 0)	
	High Line Transfer	300 VAC \pm 5 % or 150 VAC \pm 5 %	
	High Line Comeback	290 VAC \pm 5 % or 145 VAC \pm 5 %	
Frequency Range	40Hz ~ 70 Hz		
Power Factor	\geq 0.99 @ Nominal Voltage (100% Last)		
OUTPUT			
Nominal Voltage	200/208/220/230/240VAC		
AC Voltage Regulation	\pm 1%		
Frequency Range(Synchronized Range)	47~ 53 Hz or 57 ~ 63 Hz		
Frequency Range(Batt. Mode)	50 Hz \pm 0.25 Hz or 60Hz \pm 0.3 Hz		
Current Crest Ratio	3:1		
Harmonic Distortion	\leq 2 % THD (Linear Load), \leq 4 % THD (Non-linear Load)		
Transfer Time	AC mode to Battery mode	Zero	
	Inverter to Bypass	4 ms (Typical)	
Waveform (Batt. Mode)	Pure Sinewave		
EFFICIENCY			
Line Mode	87%	90%	90%
Battery Mode	83%	87%	89%
ECO Mode	94%	95%	96%
BATTERY			
Battery Type	12V / 9 Ah	12V / 9 Ah	12 V / 9 AH
Numbers	2	4	6
Typical Recharge Time	4 hours recover to 90% capacity		
Charging Current (max.)	1.0 A	1.0 A	1.0 A
Charging Voltage	27.4 VDC \pm 1%	54.7 VDC \pm 1%	82.1 VDC \pm 1%
INDICATORS			
LCD Display	Last level, Battery level, AC mode, Battery mode, Bypass mode, and Fault indicators		
ALARM			
Battery Mode	Sounding every 4 seconds		
Low Battery	Sounding every second		
Overload	Sounding twice every second		
Fault	Continuously sounding		
AC INPUT & OUTPUT CONNECTORS			
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)
STANDARDS			
Safety / EMC	IEC 62040-1 (safety) / IEC-62040-2 (EMC) / CE		
PHYSICAL			
Dimension, D x W x H(mm)	282 (D) x 145 (W) x 220 (H)	397 (D) x 145 (W) x 237 (H)	421 (D) x 190 (W) x 336 (H)
Net Weight (kgs)	9.8	17.0	17.6
ENVIRONMENT			
Operation Humidity	20-90% RH @ 0-40°C (non-condensing)		
Noise Level	Less than 50 dBA @ 1 Meter		
MANAGEMENT			
Smart RS-232 / USB	Supports Windows 2000/2003/XP/Vista/2008/7, Linux, Unix, and MAC		
Optional SNMP	Power management from SNMP manager and web browser		

*Derate to 80% of capacity in Frequency converter mode and to 80% when the output voltage is adjusted to 200/208VAC
Product specifications are subject to change without further notice



Backup Time Table for Champ Series

Battery Bank	Backup Time with Load (Min)				
	25%	50%	75%	100%	
CH 1101TS	Internal battery only (24V:12V-9Ah x 2)	24	11	6.0	4.0
CH 1102TS	Internal battery only (48V:12V-9Ah x 4)	26	12	6.5	4.0
CH 1103TS	Internal battery only (72V:12V-9Ah x 6)	31	13	7.0	4.5