



Professional On-Line & Line-Interactive UPS Solutions True Double Conversion 1.0kVA - 210kVA

Output Power Factor 0.9 - Rack/Tower 2 in 1 Design - LCD Display - Perfect Battery Pack

Champ Series Online UPS Systems

1kVA/2kVA/3kVA with Battery Bank Solution – 1-P Input / 1-P Output

Champ Series is specially designed to with stand high fluctuation power. Built-in input OVCD, it becomes a rugged UPS to protect your equipment against extreme high voltage.

Features & Advantages

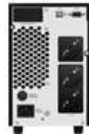
- True double-conversion
- Microprocessor control optimizes reliability
- Input power factor correction
- Output power factor 0.9
- Wide input voltage (130 V – 280 V)
- Converter mode available
- ECO mode for energy saving
- Generator compatible
- Smart SNMP works well with either USB or RS-232 together display allows easy monitoring and access of UPS status



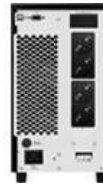
Champ 1.0 / 2.0 kVA



Champ 1kVA rear view



Champ 2kVA rear view



Champ 3kVA rear view



Champ 3.0 kVA

Backup Time Table for Champ Series 1.0 / 2.0 / 3.0 kVA UPS

UPS	Battery Bank - Capacity	Backup Time (min)		
		100%	75%	50%
CH-1101TS	Internal Battery 36V / 9Ah	3:05	5:03	7:40
CH-1102TS	Internal Battery 48V / 9Ah	4:30	7:12	12:48
CH-1103TS	Internal Battery 72V / 9Ah	4:54	7:30	11:42

P	Model	kVA	Form	Datasheet	Brochure	Manual	SNMP Card	Software	Price
1	CH-1101-TS	1.0 kVA	Tower						
2	CH-1102-TS	2.0 kVA	Tower	PDF	PDF	PDF	Go to SNMP	Go to Software	Pricelist
3	CH-1103-TS	3.0 kVA	Tower						

Specification

Model	CH-1101-TS	CH-1102-TS	CH-1103-TS
Capacity	1.0 kVA / 900W	2.0 kVA / 1800W	3.0 kVA / 2700W

Input

Voltage Range	Low Line Transfer	160 VAC / 140 VAC / 120 VAC / 110 VAC ± 5 % (based on Last percentage 100% - 80 % / 80 % - 70 % / 70 - 60 % / 60 % - 0)
	Low Line Comeback	168 VAC / 148 VAC / 128VAC / 118 VAC ± 5 % (based on Last percentage 100% - 80 % / 80 % - 70 % / 70 - 60 % / 60 % - 0)
	High Line Transfer	300 VAC ± 5 % or 150 VAC ± 5 %
	High Line Comeback	290 VAC ± 5 % or 145 VAC ± 5 %
Frequency Range	40Hz ~ 70 Hz	
Phase	Single phase with ground	
Power Factor	0.99 @ Nominal Voltage (100% Last)	

Output

Output Voltage	200/208/220/230/240VAC
Voltage Regulation	± 1%
Frequency range (Synchronized Range)	47~ 53 Hz or 57 ~ 63 Hz
Frequency Range (Batt. Mode)	50 Hz ± 0.25 Hz or 60Hz ± 0.3 Hz
OverLast	N/A
Current Crest Ratio	3:1
Harmonic Distortion	2 % THD (Linear Last) 4 % THD (Non-linear Last)
Bypass to Inverter	4 ms (Typical)
Waveform (Batt. Mode)	Pure Sinewave

Efficiency

AC Mode	87%	90%	90%
Battery Mode	83%	87%	89%

Battery

Standard Backup	Battery Type	12V / 9 Ah	12V / 9Ah	12V / 9Ah
	Numbers	2	4	6
	Typical Recharge Time	4 hours recover to 90% capacity		
	Charging Current (max.)	1.0 A		
	Charging Voltage	27.4 VDC ± 1%	54.7 VDC ± 1%	82.1 VDC ± 1%

Indicators

LCD or LED	Last level, Battery level, AC mode, Battery mode, Bypass mode, and Fault indicators
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Alarm

Battery Mode	Sounding every 4 seconds
Low Battery	Sounding every second
OverLast	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

IEC 62040-1 (safety)	Yes
IEC-62040-2 (EMC)	Yes
CE	Yes

Physical dimensions

Standard	Dimension (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)
Model	Net Weight (kgs)	9.8	17.0	27.6

Environment

Humidity	20-90% RH @ 0-40°C (non-condensing)
Noise Level	Less tahn 50dBa @ 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 100/200/208VAC*