

Applications:











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 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	Champ 1K T	Champ 2K T	Champ 3K T	Champ 6KL T	Champ 10KL T		
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	200/208/220/230/240 VAC 208/220/230/240 VAC						
Voltage Range	120-300 VAC (Based on load at 50%) 110-300 VAC (Based on load at 50 180-280 VAC (Based on load at 100%) 176-300 VAC (Based on load at 10						
Frequency Range		40Hz ~ 70 Hz		46~54 Hz or 56~64 Hz			
Power Factor		≧ (0.99 @ Nominal Voltage (10	0% Last)			
OUTPUT							
Nominal Voltage		208/220/230/240 VAC		208/220/2	30/240 VAC		
AC Voltage Regulation		± 1%		<u>±</u>	1%		
Frequency Range(Synchronized Range)		47~ 53 Hz or 57 ~ 63 Hz		46~54 Hz (or 56~64 Hz		
Frequency Range(Batt. Mode)		50 Hz or 60 Hz ± 0.5%			0Hz ± 0.1 Hz		
Current Crest Ratio		3:1			:1		
Harmonic Distortion		≤ 3 % THD (Linear Load), ≤6 % THD (Non-linear Load))	≤ 3 % THD (Linear Load), ≤5 % THD (Non-linear Load)			
Transfer AC mode to Battery mode		Zero	<u>'</u>	<u></u>	ero		
Transfer AC mode to Battery mode Time Inverter to Bypass		4 ms (Typical)			ero		
Waveform (Batt. Mode)		4 IIIs (Typical)	Pure Sinewave	Zt	310		
<u> </u>			rure sillewave				
EFFICIENCY Line Made	900/	900/	000/	020/	0.20/		
Line Mode Battery Mode	88% 83%	89% 85%	90%	92%	93% 91%		
· · · · · · · · · · · · · · · · · · ·	03/0	6370	0070	30/0	9170		
BATTERY Battery Type	12V / 9 Ah	12V / 9 Ah	12 V / 9 AH	Depends or	application		
Numbers	2	4	6	16 - 20pcs(Adjustable)			
Typical Recharge Time		hours recover to 90% capac		NA			
Charging Current (max.)	1.0 A	1.0 A	,				
				A, 2A, 4A, 6A (Adjustable,6A only for 16pcs batteries) 218.4V±1%(based on 16pcs batteries)			
Charging Voltage	27.4 VDC ± 1%	54.7 VDC ± 1%	82.1 VDC ± 1%	218.4V±1%(based of	n lopes patteries)		
INDICATORS LCD Display		Last lovel Pattery lovel AC	mada Pattanumada Puna	es made, and Fault indicators			
ALARM		Last level, battery level, At	. Illoue, battery filoue, bypa:	ss mode, and Fault indicators			
Battery Mode			Sounding every 4 seconds				
Low Battery							
<u> </u>	Sounding every second						
Overload	Sounding twice every second						
Fault			Continously sounding				
AC INPUT & OUTPUT CONNECTORS	1 v IEC 220 C14	1 - 150 220 014	1 x IEC 320 C20				
AC Output Connector	1 x IEC 320 C14	1 x IEC 320 C14		Termir	nal block		
AC Output Connector	3 x CEE 7/4 (Schuko)	3 x CEE 7/4 (Schuko)	4 x CEE 7/4 (Schuko)				
STANDARDS Sofoty / FMC		IFC 630	040-1 (safety) / IEC-62040-2 (EMC\ / CF			
Safety / EMC		IEC 620)40-1 (Salety) / IEC-62040-2 (EIVIC) / CE			
PHYSICAL				UPS Unit:	UPS Unit:		
Dimension, D x W x H(mm)	282 x 145 x 220	397 x 145 x 220	421 x 190 x 318	369 x 190 x 318 Battery Pack: 369 x 190 x 318	442 x 190 x 318 Battery Pack: 442 x 190 x 318		
Net Weight (kgs)	9.8	17.0	27.6	UPS Unit: 12 Battery Pack:49	UPS Unit: 16 Battery Pack:49.5		
ENVIRONMENT							
Operation Humidity	20-90% RH @ 0-40°C (non-condensing)			0-95% RH @ 0-50°C (non-condensing)	0-95% RH @ 0-40°C (non-condensing)		
Noise Level		Less than 50 dBA @ 1 Meter		Less than 50 dBA @ 1 Meter	Less than 58 dBA @ 1 Meter		
MANAGEMENT							
Smart RS-232 / USB	Supports Windows 2000/2003/XP/Vista/2008/7, Linux and MAC						
Optional SNMP	Power management from SNMP manager and web browser						
*1-3KVA: Derate to 80% of capacity in Frequence							

^{*1-3}kVA: 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 with Load (Min)			
	Battery Bank	25%	50%	75%	100 %
Champ 1K T/R	Internal battery only (24V:12V-9Ah x 2)	20	9.0	5.0	3.0
Champ 2K T/R	Internal battery only (48V:12V-9Ah x 4)	25	10	6.0	3.0
Champ 3K T/R	Internal battery only (72V:12V-9Ah x 6)	26	10	6.0	3.0
Champ 6KL T/R	+1 external battery (192:12V-9Ahx16)	36	15	10	6
	+2 external battery (192:12V-9Ahx16)	86	38	25	17
Champ 10KL T/R	+1 external battery (192:12V-9Ahx16)	18	8	4	3
	+2 external battery (192:12V-9Ahx16)	44	19	13	8

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MODEL		Champ 1K R	Champ 2K R	Champ 3K R	Champ 6KL R	Champ 10KL R		
PHASE		Single phase with ground						
CAPACIT	ГҮ	1000 VA / 900W	2000 VA / 1800W	3000 VA / 2700 W	6000 VA / 5400 W	10000 VA / 9000 W		
INPUT								
Nominal	Voltage		200/208/220/230/240VAC		208/220/230/240VAC			
Voltage I	Range		120-300 VAC at 50% load 180-300 VAC at 100% load		110-300 VAC ± 3% at 50% Load 176-300 VAC ± 3% at 100% Load			
Frequen	cy Range		40Hz ~ 70 Hz		46~54 H:	z or 56~64 Hz		
Power Fa			≧ 0	1.99 @ Nominal Voltage (1009	% Last)			
OUTPUT								
Nominal			200/208/220/230/240VAC			230/240 VAC		
	ge Regulation		± 1%			1%		
	cy Range(Synchronized Range)	47~ 53 Hz or 57 ~ 63 Hz			46~54 Hz or 56~64 Hz			
	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		
Harmonic Distortion		\leq 3 % THD (Linear Load), \leq 6 % THD (Non-linear Load)			\leq 3 % THD (Linear Load), \leq 5 % THD (Non-linear Load)			
Transfer	AC mode to Battery mode		Zero		Z	ero ero		
Time	Inverter to Bypass		4 ms (Typical)			'ero		
Wavefor	m (Batt. Mode)			Pure Sinewave				
EFFICIEI	NCY							
Line Mo	de	88%	89%	90%	92%	93%		
Battery N	Mode	83%	87%	88%	90%	91%		
BATTER	Υ							
	Battery Type	12V / 9 Ah	12V / 9 Ah	12 V / 9 AH	_			
Cha a ala aa	Numbers	2	4	6	_			
Standard Model	Typical Recharge Time	4	hours recover to 90% capacit	ty	N/A			
.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	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 capacity of external batterie 16-20pcs (Adjustable)			
Long-rur	Numbers in string							
Model Charging Current (max.)		N/A			1A/2A/4A/6A (Adjustable, 6A is only available for 16pcs batte			
	Charging Voltage				218.4 VDC ± 1% (Ba	ased on 16pcs batteries		
INDICAT	ORS							
LCD Disp	lay		Last level, Battery level, AC	mode, Battery mode, Bypass	mode, and Fault indicators	;		
ALARM								
Battery N	Mode	Sounding every 4 seconds						
Low Batt	ery			Sounding every second				
Overload	d			Sounding twice every second	b			
Fault				Continously sounding				
AC INPUT	& OUTPUT CONNECTORS							
AC Input	Connector	1 x IEC 320 C14	1 x IEC 320 C14	1 x IEC 320 C20	Termin	al block		
AC Outpu	ıt Connector	3 x CEE 7/4 (Schuko)	3 x CEE 7/4 (Schuko)	4 x CEE 7/4 (Schuko)	Termin	al block		
STANDA	RDS							
Safety / I	EMC		IEC 620	40-1 (safety) / IEC-62040-2 (EI	MC) / CE			
PHYSICA	AL							
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	18		
ENVIROI					Battery Pack:48			
	on Humidity	20-90)% RH @ 0-40°C (non-conden	sing)	0-95% RH @ 0-40	°C (non-condensing)		
Noise Le	<u>'</u>		Less than 50 dBA @ 1 Meter		Less than 50 dBA @ 1 Meter	Less than 58 dBA @ 1 Me		
MANAGE								
	5-232 / USB		Supports Window	s 2000/2003/XP/Vista/2008/	7, Linux and MAC			
Optional				gement from SNMP manage				
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^{*1}K-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

