# **CHAMP SERIES**

PF0.9 Online UPS

# 1KVA-10KVA

**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-1101T	CH-1102T	CH-1103T	CH-1106T	CH-1110T		
PHASE		Si					
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	208/220/2	30/240 VAC			
Voltage Range		120-300 VAC (Based on load at 50%) 180-280 VAC (Based on load at 100%)			110-300 VAC (Based on load at 50%) 176-300 VAC (Based on load at 100%)		
Frequency Range		40Hz ~ 70 Hz			46~54 Hz or 56~64 Hz		
Power Factor		≧	0.99 @ Nominal Voltage (10				
OUTPUT							
Nominal Voltage		200/208/220/230/240 VAC			20/230/240 VAC		
AC Voltage Regulation		± 1%			1%		
Frequency Range(Synchronized Rang	e)	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%		50 Hz or 60	Hz ± 0.1 Hz		
Current Crest Ratio		3:1			:1		
		≦ 3 % THD (Linear Load),			Linear Load),		
Harmonic Distortion		≦6 % THD (Non-linear Load		on-linear Load)			
Transfer AC mode to Battery mode		Zero		Ze	ero		
Time Inverter to Bypass		4 ms (Typical)		Ze	ero		
Waveform (Batt. Mode)			Pure Sinewave				
EFFICIENCY							
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% capac	ity	9 hours recover	to 90% capacity		
Charging Current (max.)	1.0 A	1.0 A	1.0 A	1A/2A (/	Adjustable)		
Charging Voltage	27.4 VDC ± 1%	54.7 VDC ± 1%	82.1 VDC ± 1%	218.4 VDC ± 1%	218.4 VDC ± 1%		
INDICATORS							
LCD Display		Last level, Battery level, A	C mode, Battery mode, Bypa	ss mode, and Fault indicators			
ALARM							
Battery Mode		Sounding every 4 seconds					
Low Battery	Sounding every second						
Overload	Sounding twice every second						
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	Tormir	nal block		
AC Output Connector	3 x CEE 7/4 (Schuko)	3 x CEE 7/4 (Schuko)	4 x CEE 7/4 (Schuko)	Terrini	Idi Diock		
STANDARDS							
Safety / EMC	IEC 62040-1 (safety) / IEC-62040-2 (EMC) / CE						
PHYSICAL							
Dimension, D x W x H(mm)	282 x 145 x 220	397 x 145 x 237	421 x 190 x 336	UPS Unit: 369 x 190 x 688 Battery Pack: 369 x 190 x 318	UPS Unit: 442 x 190 x 688 Battery Pack: 442 x 190 x 318		
Net Weight (kgs)	9.8	17.0	17.6	UPS Unit: 61 Battery Pack:49	UPS Unit: 66 Battery Pack:49.5		
ENVIRONMENT							
Operation Humidity	20-90	20-90% RH @ 0-40°C (non-condensing)			0-95% RH @ 0-40°C (non-condensing)		
Noise Level MANAGEMENT		Less than 50 dBA @ 1 Meter			Less than 58 dBA @ 1 Mete		
Smart RS-232 / USB		Supports Windo	ws 2000/2003/XP/Vista/200	8/7 Linux and MAC			
Optional SNMP		Power man	agement from SNMP manag	er and web browser			

\*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.

CE

#### Backup Time Table for Champ Series

	Backup Time with Load (Min)			
Battery Bank	25%	50%	75%	100 %
Internal battery only (24V:12V-9Ah x 2)	20	9.0	5.0	3.0
Internal battery only (48V:12V-9Ah x 4)	25	10	6.0	3.0
Internal battery only (72V:12V-9Ah x 6)	26	10	6.0	3.0
Internal battery (192V:12V-9Ah x 16)	42	17.8	10	6.8
+1 external battery (192V: 12V-9AH x 32)	78	32	18.6	12.6
Internal battery (192V:12V-9Ah x 16)	22.3	8.7	4.8	2.3
+1 external battery (192V: 12V-9AH x 32)	53	22	13	8.7
	Internal battery only (24V:12V-9Ah x 2) Internal battery only (48V:12V-9Ah x 4) Internal battery only (72V:12V-9Ah x 6) Internal battery (192V:12V-9Ah x 16) +1 external battery (192V: 12V-9AH x 32) Internal battery (192V:12V-9Ah x 16)	Battery Bank         25%           Internal battery only (24V:12V-9Ah x 2)         20           Internal battery only (48V:12V-9Ah x 4)         25           Internal battery only (72V:12V-9Ah x 6)         26           Internal battery (192V:12V-9Ah x 16)         42           +1 external battery (192V:12V-9AH x 32)         78           Internal battery (192V:12V-9Ah x 16)         22.3	Battery Bank         25%         50%           Internal battery only (24V:12V-9Ah x 2)         20         9.0           Internal battery only (48V:12V-9Ah x 4)         25         10           Internal battery only (72V:12V-9Ah x 6)         26         10           Internal battery (192V:12V-9Ah x 16)         42         17.8           +1 external battery (192V:12V-9AH x 32)         78         32           Internal battery (192V:12V-9AH x 16)         22.3         8.7	Battery Bank         25%         50%         75%           Internal battery only (24V:12V-9Ah x 2)         20         9.0         5.0           Internal battery only (24V:12V-9Ah x 2)         20         9.0         6.0           Internal battery only (48V:12V-9Ah x 4)         25         10         6.0           Internal battery only (72V:12V-9Ah x 6)         26         10         6.0           Internal battery (192V:12V-9Ah x 16)         42         17.8         10           +1 external battery (192V:12V-9AH x 32)         78         32         18.6           Internal battery (192V:12V-9Ah x 16)         22.3         8.7         4.8

# **Champ Series**

#### **TECHNICAL SPECIFICATIONS**

		CH-1101R	CH-1102R	CH-1103R	CH-1106R	CH-1110R	
PHASE				Single phase with ground			
CAPACIT	Y	1000 VA / 900W	2000 VA / 1800W	3000 VA / 2700 W	6000 VA / 5400 W	10000 VA / 9000 W	
NPUT			/ / / /		/		
Vominal	/oltage		200/208/220/230/240VAC			230/240VAC	
Voltage R	ange		120-300 VAC at 50% load 180-300 VAC at 100% load			3% at 50% Load 3% at 100% Load	
Frequenc	y Range		40Hz ~ 70 Hz		46~54 Hz or 56~64 Hz		
Power Fa	stor		≧	0.99 @ Nominal Voltage (100	% Last)		
UTPUT							
Vominal	/oltage		200/208/220/230/240VAC		208/220/2	230/240 VAC	
AC Voltage Regulation		± 1%			± 1%		
Frequency Range(Synchronized Range)		47~ 53 Hz or 57 ~ 63 Hz			46~54 Hz or 56~64 Hz		
requenc	y Range(Batt. Mode)	50	0 Hz ± 0.25 Hz or 60Hz ± 0.3	Hz	50 Hz or 6	60Hz ± 0.1 Hz	
Current C	rest Ratio		3:1			3:1	
Harmonic	Distortion	≦ 3 % THD (Linear Load), ≦6 % THD (Non-linear Load)				(Linear Load), Non-linear Load)	
Transfer AC mode to Battery mode		Zero			Zero		
ime	Inverter to Bypass		4 ms (Typical)		Zero		
Naveforn	n (Batt. Mode)		/	Pure Sinewave			
FFICIEN							
_ine Mod		88%	89%	90%	92%	93%	
Battery N	lode	83%	87%	88%	90%	91%	
ATTERY							
	Battery Type	12V / 9 Ah	12V / 9 Ah	12 V / 9 AH			
	Numbers	2	4	6			
itandard Aodel	Typical Recharge Time	4	hours recover to 90% capac	ity		N/A	
lodel	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 capa	city of external batterie	
					Depending on the capat		
ong-run	Numbers in string					Adjustable)	
		-	N/A			Adjustable)	
	Numbers in string Charging Current (max.)	- -	N/A		16-20pcs ( 1A/2A/4A/6A (Adjustable, 6A is	Adjustable) only available for 16pcs batte	
Model	Numbers in string Charging Current (max.) Charging Voltage	-	N/A		16-20pcs ( 1A/2A/4A/6A (Adjustable, 6A is	Adjustable) only available for 16pcs batte	
Model	Numbers in string Charging Current (max.) Charging Voltage			C mode, Battery mode, Bypas	16-20pcs ( 1A/2A/4A/6A (Adjustable, 6A is 218.4 VDC ± 1% (B	Adjustable) only available for 16pcs batte ased on 16pcs batterie:	
Nodel NDICATC .CD Displ	Numbers in string Charging Current (max.) Charging Voltage			C mode, Battery mode, Bypass	16-20pcs ( 1A/2A/4A/6A (Adjustable, 6A is 218.4 VDC ± 1% (B	Adjustable) only available for 16pcs batte ased on 16pcs batterie	
Nodel NDICATC CD Displ	Numbers in string Charging Current (max.) Charging Voltage DRS ay			C mode, Battery mode, Bypass Sounding every 4 seconds	16-20pcs ( 1A/2A/4A/6A (Adjustable, 6A is 218.4 VDC ± 1% (B	Adjustable) only available for 16pcs batte ased on 16pcs batterie	
NDICATC CD Displ LARM Battery M	Numbers in string Charging Current (max.) Charging Voltage DRS ay				16-20pcs ( 1A/2A/4A/6A (Adjustable, 6A is 218.4 VDC ± 1% (B	Adjustable) only available for 16pcs batte ased on 16pcs batterie:	
NDICATC CD Displ LARM Battery M	Numbers in string Charging Current (max.) Charging Voltage DRS ay			Sounding every 4 seconds	16-20pcs ( 1A/2A/4A/6A (Adjustable, 6A is 218.4 VDC ± 1% (B s mode, and Fault indicator:	Adjustable) only available for 16pcs batte ased on 16pcs batterie:	
VIODEI CD Displ LARM Battery M Low Batte	Numbers in string Charging Current (max.) Charging Voltage DRS ay	· · ·		Sounding every 4 seconds Sounding every second	16-20pcs ( 1A/2A/4A/6A (Adjustable, 6A is 218.4 VDC ± 1% (B s mode, and Fault indicator:	Adjustable) only available for 16pcs batte ased on 16pcs batterie	
NDICATC .CD Displ .LARM Battery M .ow Batte Dverload	Numbers in string Charging Current (max.) Charging Voltage DRS ay	· · ·		Sounding every 4 seconds Sounding every second Sounding twice every second	16-20pcs ( 1A/2A/4A/6A (Adjustable, 6A is 218.4 VDC ± 1% (B s mode, and Fault indicator:	Adjustable) only available for 16pcs batte ased on 16pcs batterie	
NDICATC CD Displ LARM Battery M ow Batte Overload	Numbers in string Charging Current (max.) Charging Voltage DRS ay lode	1 × IEC 320 C14		Sounding every 4 seconds Sounding every second Sounding twice every second	16-20pcs ( 1A/2A/4A/6A (Adjustable, 6A is 218.4 VDC ± 1% (B 5 mode, and Fault indicator:	Adjustable) only available for 16pcs batte ased on 16pcs batterie:	
Model NDICATC CD Displ LARM Battery M cow Batte Overload Fault C INPUT C INPUT	Numbers in string Charging Current (max.) Charging Voltage DRS ay lode ery & OUTPUT CONNECTORS	1 x IEC 320 C14 3 x CEE 7/4 (Schuko)	Last level, Battery level, AG	Sounding every 4 seconds Sounding every second Sounding twice every second Continously sounding	16-20pcs ( 1A/2A/4A/6A (Adjustable, 6A is 218.4 VDC ± 1% (B 5 mode, and Fault indicator:	Adjustable) only available for 16pcs batter ased on 16pcs batterie: s	
Nodel NDICATC CD Displ LARM Battery M Low Batte Dverload Fault C INPUT AC Input C	Numbers in string Charging Current (max.) Charging Voltage DRS ay lode ery & OUTPUT CONNECTORS Connector Connector		Last level, Battery level, AG	Sounding every 4 seconds Sounding every second Sounding twice every second Continously sounding 1 x IEC 320 C20	16-20pcs ( 1A/2A/4A/6A (Adjustable, 6A is 218.4 VDC ± 1% (B 5 mode, and Fault indicator:	Adjustable) only available for 16pcs batte ased on 16pcs batterie: s	
Nodel NDICATC CCD Displ LARM Battery M Low Batte Cow Bat	Numbers in string Charging Current (max.) Charging Voltage DRS ay lode erry & OUTPUT CONNECTORS Connector Connector		Last level, Battery level, Ad 1 x IEC 320 C14 3 x CEE 7/4 (Schuko)	Sounding every 4 seconds Sounding every second Sounding twice every second Continously sounding 1 x IEC 320 C20	16-20pcs ( 1A/2A/4A/6A (Adjustable, 6A is 218.4 VDC ± 1% (B 5 mode, and Fault indicator: 4 5 5 7 7 7 8 7 7 8 7 7 8 7 8 7 8 7 8 7 8	Adjustable) only available for 16pcs batter ased on 16pcs batteries s	
NODEL CD Displ LARM Battery M Low Batte Dverload Fault C INPUT AC Input ( AC Output TANDAF bafety / E	Numbers in string Charging Current (max.) Charging Voltage DRS ay lode ery & OUTPUT CONNECTORS Connector Connector RDS MC		Last level, Battery level, Ad 1 x IEC 320 C14 3 x CEE 7/4 (Schuko)	Sounding every 4 seconds Sounding every second Sounding twice every second Continously sounding 1 x IEC 320 C20 4 x CEE 7/4 (Schuko)	16-20pcs ( 1A/2A/4A/6A (Adjustable, 6A is 218.4 VDC ± 1% (B 5 mode, and Fault indicator: 4 5 5 7 7 7 8 7 7 8 7 7 8 7 7 8 7 8 7 8 7	Adjustable) only available for 16pcs batter ased on 16pcs batterie: s	
Model NDICATC LCD Displ LARM Battery M Low Battery M Low Battery Overload Fault C INPUT AC Input ( AC Output STANDAF Safety / E PHYSICA Standard	Numbers in string Charging Current (max.) Charging Voltage DRS ay lode ery & OUTPUT CONNECTORS Connector Connector RDS MC		Last level, Battery level, Ad 1 x IEC 320 C14 3 x CEE 7/4 (Schuko)	Sounding every 4 seconds Sounding every second Sounding twice every second Continously sounding 1 x IEC 320 C20 4 x CEE 7/4 (Schuko)	16-20pcs ( 1A/2A/4A/6A (Adjustable, 6A is 218.4 VDC ± 1% (B 5 mode, and Fault indicator: 4 5 5 7 7 7 8 7 7 8 7 7 8 7 7 8 7 8 7 8 7	Adjustable) only available for 16pcs batter ased on 16pcs batteries s	
Model NDICATC LCD Displ ALARM Battery M Low Battery M Low Battery Overload Fault C INPUT AC INPUT AC INPUT C Output STANDAF Safety / E PHYSICA Standard	Numbers in string Charging Current (max.) Charging Voltage DRS ay lode erry & OUTPUT CONNECTORS Connector Connector RDS MC	3 x CEE 7/4 (Schuko)	Last level, Battery level, AG 1 x IEC 320 C14 3 x CEE 7/4 (Schuko) IEC 620	Sounding every 4 seconds Sounding every second Continously sounding 1 x IEC 320 C20 4 x CEE 7/4 (Schuko)	16-20pcs ( 1A/2A/4A/6A (Adjustable, 6A is 218.4 VDC ± 1% (B s mode, and Fault indicator: d Termir MC) / CE N/A N/A	Adjustable) only available for 16pcs batter ased on 16pcs batteries s al block al block	
AC Input ( AC Output STANDAF Safety / E PHYSICA Standard Model	Numbers in string Charging Current (max.) Charging Voltage DRS ay Hode erry & OUTPUT CONNECTORS Connector Connector Connector RDS MC L Dimension, D x W x H(mm)	3 x CEE 7/4 (Schuko) 310 x 438 x 88	Last level, Battery level, AG 1 x IEC 320 C14 3 x CEE 7/4 (Schuko) IEC 620 410 x 438 x 88	Sounding every 4 seconds Sounding every second Continously sounding 1 x IEC 320 C20 4 x CEE 7/4 (Schuko) 040-1 (safety) / IEC-62040-2 (E 630 x 438 x 88	16-20pcs ( 1A/2A/4A/6A (Adjustable, 6A is 218.4 VDC ± 1% (B s mode, and Fault indicator: d Termir MC) / CE N/A N/A UPS Unit: 530x438x88 [2U] Battery Pack:	Adjustable) only available for 16pcs batter ased on 16pcs batterie: s hal block hal block N/A	
Nodel NDICATC CD Displ LARM Battery M adattery M adattery M Cow Batte Dverload Gult C Input C Input C Output C Output TANDAF afety / E HYSICA Standard Model	Numbers in string Charging Current (max.) Charging Voltage <b>DRS</b> ay Hode erry <b>&amp; OUTPUT CONNECTORS</b> Connector Connector Connector <b>RDS</b> MC L Dimension, D x W x H(mm) Net Weight (kgs)	3 x CEE 7/4 (Schuko) 310 x 438 x 88	Last level, Battery level, AG 1 x IEC 320 C14 3 x CEE 7/4 (Schuko) IEC 620 410 x 438 x 88	Sounding every 4 seconds Sounding every second Continously sounding 1 x IEC 320 C20 4 x CEE 7/4 (Schuko) 040-1 (safety) / IEC-62040-2 (E 630 x 438 x 88	I6-20pcs ( 1A/2A/4A/6A (Adjustable, 6A is 218.4 VDC ± 1% (B s mode, and Fault indicators d Termir MC) / CE N/A N/A UPS Unit: 530x438x88 [2U] Battery Pack: 668x438x88 [2U]	Adjustable) only available for 16pcs batter ased on 16pcs batterie s hal block hal block N/A N/A	
Andel ADICATC CD Displ LARM Battery M ow Batter Overload ault C INPUT C INPUT C INPUT C Output TANDAF afety / E HYSICA itandard Model ong-run	Numbers in string Charging Current (max.) Charging Voltage <b>DRS</b> ay Hode erry <b>&amp; OUTPUT CONNECTORS</b> Connector Connector Connector <b>RDS</b> MC L Dimension, D x W x H(mm) Net Weight (kgs)	3 x CEE 7/4 (Schuko) 310 x 438 x 88	Last level, Battery level, AG	Sounding every 4 seconds Sounding every second Continously sounding 1 x IEC 320 C20 4 x CEE 7/4 (Schuko) 040-1 (safety) / IEC-62040-2 (E 630 x 438 x 88	I6-20pcs ( 1A/2A/4A/6A (Adjustable, 6A is 218.4 VDC ± 1% (B s mode, and Fault indicator: d Termir MC) / CE N/A N/A UPS Unit: 530x438x88 [2U] Battery Pack: 668x438x88 [2U] UPS Unit: 15	Adjustable) only available for 16pcs batter ased on 16pcs batterie s hal block hal block N/A N/A	
Andel ADICATC CD Displ LARM Battery M ow Batter Dverload ault C INPUT C INPUT C INPUT C Output C Output TANDAF afety / E HYSICA itandard Andel ong-run Andel	Numbers in string Charging Current (max.) Charging Voltage DRS ay lode erry & OUTPUT CONNECTORS Connector Connector RDS MC L Dimension, D x W x H(mm) Net Weight (kgs) Net Weight (kgs)	3 x CEE 7/4 (Schuko) 310 x 438 x 88	Last level, Battery level, AG	Sounding every 4 seconds Sounding every second Continously sounding 1 x IEC 320 C20 4 x CEE 7/4 (Schuko) 040-1 (safety) / IEC-62040-2 (E 630 x 438 x 88	I6-20pcs ( 1A/2A/4A/6A (Adjustable, 6A is 218.4 VDC ± 1% (B s mode, and Fault indicators d Termir MC) / CE N/A N/A UPS Unit: 530x438x88 [2U] Battery Pack: 668x438x88 [2U]	Adjustable) only available for 16pcs batter ased on 16pcs batterie s nal block nal block N/A N/A S80 x 438 x 133[30]	
Nodel NDICATC CD Displ LARM Battery M .ow Batte Dverload Fault C INPUT C INPUT C INPUT C Output C Output TANDAF Gafety / E HYSICA Standard Model	Numbers in string Charging Current (max.) Charging Voltage DRS ay lode erry & OUTPUT CONNECTORS Connector Connector RDS MC L Dimension, D x W x H(mm) Net Weight (kgs) Net Weight (kgs)	3 x CEE 7/4 (Schuko) 310 x 438 x 88 12	Last level, Battery level, AG	Sounding every 4 seconds Sounding every second Continously sounding 1 x IEC 320 C20 4 x CEE 7/4 (Schuko) 040-1 (safety) / IEC-62040-2 (E 630 x 438 x 88 29.3	16-20pcs (         1A/2A/4A/6A (Adjustable, 6A is         218.4 VDC ± 1% (B         a mode, and Fault indicator:         a         d         d         d         d         d         MC) / CE         N/A         N/A         UPS Unit: 530x438x88 [2U]         Battery Pack:         668x438x88 [2U]         UPS Unit: 15         Battery Pack:48	Adjustable) only available for 16pcs batter ased on 16pcs batterie s nal block nal block N/A N/A S80 x 438 x 133[30]	
Nodel NDICATC CD Displ LARM Battery M .ow Batter Dverload Tault C INPUT C INPUT C Output C Output TANDAF afety / E HYSICA Standard Model .ong-run Model .ong-run Model	Numbers in string Charging Current (max.) Charging Voltage DRS ay dode erry & OUTPUT CONNECTORS Connector Connector RDS MC L Dimension, D x W x H(mm) Net Weight (kgs) Dimension, D x W x H(mm) Net Weight (kgs)	3 x CEE 7/4 (Schuko) 310 x 438 x 88 12 20-90	Last level, Battery level, AG	Sounding every 4 seconds Sounding every second Continously sounding 1 x IEC 320 C20 4 x CEE 7/4 (Schuko) 040-1 (safety) / IEC-62040-2 (E 630 x 438 x 88 29.3	16-20pcs (         1A/2A/4A/6A (Adjustable, 6A is         218.4 VDC ± 1% (B         a mode, and Fault indicator:         a         d         d         d         d         d         MC) / CE         N/A         N/A         UPS Unit: 530x438x88 [2U]         Battery Pack:         668x438x88 [2U]         UPS Unit: 15         Battery Pack:48	Adjustable) only available for 16pcs batter ased on 16pcs batterie s alblock alblock N/A N/A 580 x 438 x 133[3U] 18	
Nodel NDICATC CD Displ LARM Battery M .ow Batter Dverload Tault C INPUT C INPUT C Output C Output TANDAF afety / E HYSICA Standard Model NVIRON Dperation Noise Lev	Numbers in string Charging Current (max.) Charging Voltage DRS ay lode erry & OUTPUT CONNECTORS Connector Connector RDS MC L Dimension, D x W x H(mm) Net Weight (kgs) Dimension, D x W x H(mm) Net Weight (kgs)	3 x CEE 7/4 (Schuko) 310 x 438 x 88 12 20-90	Last level, Battery level, Ad 1 x IEC 320 C14 3 x CEE 7/4 (Schuko) IEC 620 410 x 438 x 88 19 N/A % RH @ 0-40°C (non-condet	Sounding every 4 seconds Sounding every second Continously sounding 1 x IEC 320 C20 4 x CEE 7/4 (Schuko) 040-1 (safety) / IEC-62040-2 (E 630 x 438 x 88 29.3	I6-20pcs ( 1A/2A/4A/6A (Adjustable, 6A is 218.4 VDC ± 1% (B is mode, and Fault indicator: d Termir MC) / CE N/A N/A UPS Unit: 530x438x88 [2U] Battery Pack: 668x438x88 [2U] UPS Unit: 15 Battery Pack:48 0-95% RH @ 0-40	Adjustable) only available for 16pcs batter ased on 16pcs batterie s alblock alblock N/A N/A 580 x 438 x 133[3U] 18	
Model  NDICATC CD Displ LARM Battery M .ow Batte Overload Fault C INPUT AC Input ( AC Output TANDAF Gafety / E HYSICA Standard Model  Nong-run Model  NUIRON Dperation Noise Lev IANAGE	Numbers in string Charging Current (max.) Charging Voltage DRS ay lode erry & OUTPUT CONNECTORS Connector Connector RDS MC L Dimension, D x W x H(mm) Net Weight (kgs) Dimension, D x W x H(mm) Net Weight (kgs)	3 x CEE 7/4 (Schuko) 310 x 438 x 88 12 20-90	Last level, Battery level, Ad 1 x IEC 320 C14 3 x CEE 7/4 (Schuko) IEC 620 410 x 438 x 88 19 N/A % RH @ 0-40°C (non-conden Less than 50 dBA @ 1 Meter	Sounding every 4 seconds Sounding every second Continously sounding 1 x IEC 320 C20 4 x CEE 7/4 (Schuko) 040-1 (safety) / IEC-62040-2 (E 630 x 438 x 88 29.3	16-20pcs (         1A/2A/4A/6A (Adjustable, 6A is         218.4 VDC ± 1% (B         a mode, and Fault indicator:         a         d         d         d         d         d         MC) / CE         N/A         N/A         UPS Unit: 530x438x88 [2U]         Battery Pack:         668x438x88 [2U]         UPS Unit: 15         Battery Pack:48         0-95% RH @ 0-400         Less than 50 dBA @ 1 Meter	Adjustable) only available for 16pcs batter ased on 16pcs batterie s alblock alblock N/A N/A 580 x 438 x 133[3U] 18	
Model  NDICATC CD Displ LARM Battery M .ow Batte Overload Fault C INPUT AC Input ( AC Output TANDAF Gafety / E HYSICA Standard Model  Nong-run Model  NUIRON Dperation Noise Lev IANAGE	Numbers in string Charging Current (max.) Charging Voltage DRS ay dode erry & OUTPUT CONNECTORS Connector Connector Connector RDS MC L Dimension, D x W x H(mm) Net Weight (kgs) Dimension, D x W x H(mm) Net Weight (kgs) MENT o Humidity el MENT 232 / USB	3 x CEE 7/4 (Schuko) 310 x 438 x 88 12 20-90	Last level, Battery level, AG	Sounding every 4 seconds Sounding every second Continously sounding 1 x IEC 320 C20 4 x CEE 7/4 (Schuko) 040-1 (safety) / IEC-62040-2 (E 630 x 438 x 88 29.3	16-20pcs ( 1A/2A/4A/6A (Adjustable, 6A is 218.4 VDC ± 1% (B is mode, and Fault indicator: d Termir MC) / CE N/A N/A UPS Unit: 530x438x88 [2U] Battery Pack: 668x438x88 [2U] UPS Unit: 15 Battery Pack:48 0-95% RH @ 0-40 Less than 50 dBA @ 1 Meter /7, Linux and MAC	Adjustable) only available for 16pcs batter ased on 16pcs batterie s hal block hal block N/A N/A 580 x 438 x 133[3U] 18	

#### Backup Time Table for Champ Series

		Backup Time with Load (Min)			
	Battery Bank	25%	50%	75%	100 %
CH 1106RS	Internal battery (192V:12V-9Ah x 16)	42	17.8	10	6.8
	+1 external battery (192V: 12V-9AH x 32)	78	32	18.6	12.6
CH 1110RS	Internal battery (192V:12V-9Ah x 16)	22.3	8.7	4.8	2.3
	+1 external battery (192V: 12V-9AH x 32)	53	22	13	8.7