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TECHNICAL PRODUCT INFORMATION

Test & measurement instruments

- high - quality
- moderate prices
- excellent precision

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IT7915P-350-90			
Input parameters (connect to grid)			
AC Input	Wiring connection	3 phase 3wire + ground(PE)	
	Line voltage	RMS	(200V ~ 220V) ±10% *1 (380V ~ 480V) ±10%
	Line current	RMS	< 34A
	Apparent power		< 17.4kVA
	Frequency		45 ~ 65Hz
	Power factor	typ	0.98
Output parameters (connect to EUT) (connect to grid)			
AC Output	Output voltage	VLN *2	0 ~ 350V
		VLL	0 ~ 606V (3phase) / 0 ~ 700V (reverse)
	Output current	RMS	90A (1phase) / 30A (3phase/multichannel/reverse)
		Crest Factor *3	6
		Peak	270A (1phase) / 90A (3phase/multichannel/reverse)
	Output power	Per Phase/Per Channel	5kVA
		Max. Power	10kVA (reverse phase) / 15kVA (1phase/3phase/multichannel)
	Voltage setting		
	Range	0 ~ 350V (1phase/3phase/multichannel) / 0 ~ 700V (reverse)	
	Resolution	0.01V	
	Accuracy	< 0.1%+0.1% F.S. (16Hz ~ 500Hz) / < 0.1%+(0.2%*kHz)F.S. (500.01Hz ~ 2.4kHz)	
	DC offset voltage	typ	0.02Vdc
	Current Limit setting		
	Range	RMS	90A (1phase) / 30A (3phase/multichannel/reverse)
	Resolution	0.01A	
	Accuracy	< 0.1% + 0.2% F.S. (16Hz ~ 150Hz) / < 0.2% + 0.3% F.S. (150.01Hz ~ 500Hz) / < 0.3%+(0.6%*kHz) F.S (500.01Hz ~ 2.4kHz)	
	Frequency		
	Range	16 ~ 500Hz (Low *4) / 16 ~ 2.4k (High *4)	
	Resolution	0.01Hz	
	Accuracy	0.01% (16Hz ~ 500Hz) / 0.1% (500.01Hz ~ 2.4kHz)	
	waveform synthesis	50/60Hz	up to 50 orders
	Phase		
	Range	0 ~ 360°	
	Resolution	0.01°	
DC Output	Voltage setting		
	Range	-499 ~ 499Vdc (1phase/multichannel) / -998 ~ 998Vdc (reverse)	
	Resolution	0.01V	
	Accuracy	< 0.1%+0.1% F.S	
	Current setting		
	Range	-30 ~ 30Adc (multichannel/reverse) / -90 ~ 90Adc (1phase)	
	Resolution	0.01A	
	Accuracy	< 0.1% + 0.2% F.S.	
	Max. power		
	Phase power	Per Channel	5kW
Max. power (reversephase)	Max. Power (reverse phase)	10kW	
Total power	Max. Power (1phase/multichannel)	15kW	
Voltage stability	Line regulation	< 0.05% F.S.	
	Load regulation*5	< 0.05% + 0.05% F.S.(DC,16Hz ~ 500Hz) / < 0.05% + (0.1%*kHz) F.S(500.01Hz ~ 2.4kHz)	
	THD*6	< 0.5%(16Hz ~ 100Hz) / < 1%(100.01Hz ~ 500Hz) / < 1%+(1%*kHz) F.S.(500.01Hz ~ 2.4kHz)	
	Voltage ripple	RMS	< 0.4V
	Dynamic response*7	typ	200us
Programmable impedance	R Range	0 ~ 1000mΩ(3phase/multichannel) / 0 ~ 333.333mΩ (1phase) / 0 ~ 2000mΩ(reverse)	
	L Range	0 ~ 1000uH (3phase/multichannel) / 0 ~ 333.333uH (1phase) / 0 ~ 2000uH (reverse)	
RLC	P Range	0 ~ 5kW (3phase) / 0 ~ 15kW (1phase) / 0 ~ 10kW (reverse)	
	QL Range	0 ~ 5kVar (3phase) / 0 ~ 15kVar (1phase) / 0 ~ 10kVar (reverse)	
	QC Range	0 ~ 5kVar (3phase) / 0 ~ 15kVar (1phase) / 0 ~ 10kVar (reverse)	
	R Range	1 ~ 1000Ω (3phase) / 0.333 ~ 333.333Ω (1phase) / 2 ~ 2000Ω (reverse)	
	L Range	1 ~ 5000mH (3phase) / 0.333 ~ 1666.667mH (1phase) / 2 ~ 10000mH (reverse)	
	C Range	0.001 ~ 5mF (3phase) / 0.003 ~ 15mF (1phase) / 0.001 ~ 2.5mF (reverse)	
	Voltage Slew Rate, Typical	≥2 V/μs with full-scale programmed voltage step	
Output Isolation	550Vac		
Output parameters (electronic load mode)			
AC Mode	Input voltage	VLN	30 ~ 350V
		VLL	51.96 ~ 606V (3phase) / 30 ~ 700V (reverse)
	Input frequency	16~500Hz	
		RMS	90A (1phase) / 30A (3phase/multichannel/reverse)
	Input current	Crest Factor *8	5
		Peak	270A (1phase) / 90A (3phase/multichannel/reverse)
		Per Phase	5kVA (3phase)
	Input power	Max. Power	10kVA (reverse phase) / 15kVA (1phase/3phase/multichannel)
	CC Mode		
	Current Range	RMS	90A (1phase) / 30A (3phase/reverse)
	Resolution	0.01A	
	Accuracy*9	< 0.1% + 0.2% F.S. (DC,16Hz ~ 150Hz) / < 0.2% + 0.3% F.S.(150.1Hz ~ 500Hz *10)	
	CP Mode		
Range	Max. Power	15kW (1phase/3phase) / 10kW (reverse phase)	
	Per Phase	5kW (3phase)	
Resolution	0.001kW		
Accuracy	< 0.4% +0.4% F.S. (DC,16Hz ~ 500Hz)		

AC Mode	CS Mode		
	Range	Max. Power Per Phase	15kVA (1phase/3phase) / 10kVA (reverse phase) 5kVA (3phase)
	Resolution	0.001kVA	
	Accuracy	< 0.4% +0.4% F.S. (16Hz ~ 500Hz)	
	CR Mode		
	Range	0.334 ~ 388.88Ω(1phase) / 1.002 ~ 1166.6Ω (3phase/reverse phase)	
	Resolution	0.001Ω	
	Accuracy *11	0.4%+0.4%F.S.	
	Circuit Emulation(CE)-Parallel rlc		
	R Range	0.334 ~ 388.88Ω(1phase) / 1.002 ~ 1166.6Ω(3phase/reverse phase)	
	L Range	1 ~ 2000mH (1phase) / 3 ~ 2000mH (reverse phase) / 3 ~ 2000mH (3phase)	
	C Range	0.001 ~ 9900uF (1phase) / 0.001 ~ 3300uF (reverse phase) / 0.001 ~ 3300uF (3phase)	
	Rc Range	0.334 ~ 388.88Ω(1phase) / 1.002 ~ 1166.6Ω(3phase/reverse phase)	
	RL Range	0.334 ~ 388.88Ω(1phase) / 1.002 ~ 1166.6Ω(3phase/reverse phase)	
	IL Range	0 ~ 272.7A (1phase) / 0 ~ 90.90A (reverse phase) / 0 ~ 90.90A (3phase)	
	Max peak current	272.7A (1phase) / 90.9A (reverse phase) / 90.9A (3phase)	
	Circuit Emulation(CE)-Rectifier single phase rlc		
	R Range	0.334 ~ 388.88Ω(1phase) / 1.002 ~ 1166.6Ω(3phase/reverse phase)	
	L Range	0.1 ~ 2000mH (1phase) / 0.3 ~ 2000mH (reverse phase) / 0.3 ~ 2000mH (3phase)	
	C Range	0.001 ~ 9900uF (1phase) / 0.001 ~ 3300uF (reverse phase) / 0.001 ~ 3300uF (3phase)	
	RS Range	0 ~ 388.88Ω(1phase) / 0 ~ 1166.6Ω(3phase/reverse phase)	
	Vcap Range	0 ~ 499.924V (1phase) / 0 ~ 499.924V (reverse phase) / 0 ~ 499.924V (3phase)	
	Vdiode Range	0 ~ 5V (1phase) / 0 ~ 5V (reverse phase) / 0 ~ 5V (3phase)	
	Max peak current	272.7A (1phase) / 90.9A (reverse phase) / 90.9A (3phase)	
	Phase Range		
	Range	Rectified Mode *12	-82.8°~+82.8° -180° ~ +180°(Current Source Mode: +90.01° ~ +180° & -90.01° ~ -180°)
	Resolution	0.01°	
	Accuracy*13	1% F.S.	
	CF setting		
	Range	1.414 ~ 5.0	
	Resolution	0.001	
DC Mode	voltage range	30 ~ 499V(1phase) / 30 ~ 998V(reverse phase)	
	current range	0 ~ 90A (1phase) / 0 ~ 30A(reverse phase)	
	current rise time	200us	
	working mode	CC, CV, CR, CP, CC+CV, CR+CV, CP+CV, CC+CR, CC+CV+CP+CR	
Measurement parameter (grid simulator mode)			
Voltage RMS	Resolution	0.01V	
	Accuracy	< 0.1%+0.1% F.S. (DC,16Hz ~ 500Hz) / < 0.1%+(0.2%*kHz) F.S (500.01Hz ~ 2.4kHz)	
Current RMS	Resolution	0.01A	
	Accuracy	< 0.1% + 0.2% F.S. (DC,16Hz ~ 150Hz) / < 0.2% + 0.3% F.S. (150.01Hz ~ 500Hz) / < 0.3% + (0.6%*kHz) F.S (500.01Hz ~ 2.4kHz)	
Peak current	Resolution	0.1A	
	Accuracy	< 0.4% + 0.6% F.S. (16Hz ~ 500Hz) / < 0.4% + (1.2%*kHz) F.S (500.01Hz ~ 2.4kHz)	
Output power	Resolution	0.001kW	
	Accuracy	< 0.4% +0.4% F.S. (DC,16Hz ~ 500Hz) / < 0.4% + < (0.8%*kHz) F.S (500.01Hz ~ 2.4kHz)	
Harmonic measurement	Max.	50/60Hz	up to 50 orders
Measurement parameter (electronic load mode)			
Voltage RMS	Range	0 ~ 350Vrms	
	Resolution	0.01V	
	Accuracy	< 0.1%+0.1% F.S. (DC,16Hz ~ 500Hz)	
Current RMS	Range	0 ~ 90A	
	Resolution	0.01A	
	Accuracy	< 0.1% + 0.2% F.S. (DC,16Hz ~ 150Hz) / < 0.2% + 0.3% F.S. (150.1Hz ~ 500Hz)	
Peak current	Range	0 ~ 270A	
	Resolution	0.1A	
	Accuracy	< 0.3% + 0.6% F.S. (16Hz ~ 500Hz)	
Active power	Range	0 ~ 15kW	
	Resolution	0.001kW	
	Accuracy	< 0.4% +0.4% F.S.	
Reactive power	Range	0 ~ 15kVAR	
	Resolution	0.001kVAR	
	Accuracy	< 0.4% +0.4% F.S.	
Apparent power	Range	0 ~ 15KVA	
	Resolution	0.001KVA	
	Accuracy	< 0.4% +0.4% F.S.	
CF measurement	Range	1 ~ 5	
	Resolution	0.01	
PF measurement	Range	0.1 ~ 1	
	Resolution	0.01	
Harmonic measurement	Accuracy	1%F.S.	
Harmonic measurement	Max.	50/60Hz	up to 50 orders

Regenerative		
Max. Regenerative power		15kVA
THD		< 5%
Others		
Efficiency	typ *14	91%
dimension		483.00mm (W) * 151.3mm (H) * 777.50mm(D) (841.6mm cover and holder included)
Weight		42kg
Working temperature		0 C -50 C
Programming response time		2ms
Remote Sense Compensation Voltage		20V
Communication interface		Built-in USB/CAN/LAN/Digital IO interface, optional GPIB / Analog&RS232

*1 (200~220) ±10%, 3 phase AC input, power is 60% of the rated.

*2 Depending on the frequency, the output voltage will decrease. The rated voltage can be output below 1.4kHz, the maximum output voltage at 2kHz is 250.76Vrms, and the maximum output voltage at 2.4kHz is 208.97Vrms.

*3 When the output frequency is below 50Hz/60Hz, and the peak current is not exceeded, the maximum CF is 6; under the condition of full current and full power, the maximum CF is *4 When

*4 loopSpeed Low is low it can better complied DUT's characteristics; When LoopSpeed is High, the dynamic response time is faster.

*5 30kW and above models need to use the sense remote measurement mode for testing.

*6 Test condition: pure resistive load, under full power condition

*7 When the input frequency is below 50Hz/60Hz, and the peak current is not exceeded, the maximum CF is 5; under the condition of full current and full power, the maximum CF is 3.

*8 For frequency <150Hz, the minimum current for accuracy test is 1%F.S., for frequency>150Hz, the minimum current for accuracy test is 3%F.S.

*9 When LoopSpeed is Low, it is more adaptable to the load; when LoopSpeed is Fast, the dynamic response is faster; when the frequency is high, please use Fast mode.

*10 Test frequency <150Hz, which meets this specification.

*11 Under condition: I >10%F.S., F<150Hz

*12 In rectifier load mode, the setting range of the phase angle is related to CF. The higher the CF, the wider the setting range.

*13 ≤150Hz, 1%F.S., >150Hz, 5%F.S.

*14 Test conditions: Input 380VLL/50Hz, output three-phase, each phase 350Vrms/50Hz/7kW.

All the above parameters are subject to change without prior notice from ITECH.



This information is subject to change without notice. For more information, please contact ITECH.

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