# **Ultron IPT Series UPS**

## Three-phase, 20-200 kVA, 400 Vac

### Redefining Reliability in Uncertainty

In the age of Industry 4.0, the integration of advanced sensors, controllers, and robotics has transformed manufacturing into a more electro-intensive sector than ever before. Ensuring stable and continuous power is now crucial for business continuity. The IPT series, an industrial transformerbased UPS, employs a Power Factor Correction (PFC) converter, replacing the traditional 6-pulse and 12-pulse rectifier structures. This upgrade enhances both input Total Harmonic Distortion (THDi) and input power factor, helping you save dramatically on frontend investment while providing unrivaled reliability in challenging environments.



#### **Unrivaled Resilience**

- Output Zig-zag transformer provides solid load galvanic separation, withstands heavier unbalanced loads, and delivers full kVA output capacity
- Excellent short-circuit capability from load: 3.3 times the rated current, 35% beyond a conventional transformerless UPS
- Industrial robust mechanical design provides enclosure protection level up to IP43 (optional), and resists water, liquids, conductive dust, high temperatures and earthquakes
- Key component redundancy ensures uninterruptible operation

#### **Cost Efficiency**

- Active Power Factor Correction dramatically reduces input current harmonics (THDi < 3%), minimizing</li> distortion to upstream equipment, and optimizes frontend investment from generator, cabling and breaker, eliminating the cost of additional harmonic filters and aiding factory compliance with energy regulations
- Surpassing input power factor > 0.99 exceeds industrial UPS standards, minimizing energy waste consumption and optimizing system efficiency
- Maximizes UPS performance and lifespan with self-diagnosis and key component analysis

#### Simple Management

- Easy to use: waterproof 10" color touchscreen (IP54)
- · Easy to maintain: supports full front access
- Easy to install: provides both bottom and top (optional) cable entry













### **Technical Specifications**

Model IPT-		30K <sup>(1)</sup>	40K <sup>(1)</sup>	50K <sup>(1)</sup>	60K <sup>(1)</sup>	80K <sup>(1)</sup>	100K <sup>(1)</sup>	120K	160K <sup>(1)</sup>	200K <sup>(1)</sup>	
Power Rating	20 kVA	30 kVA	40 kVA	50 kVA	60 kVA	80 kVA	100 kVA	120 kVA	160 kVA	200 kV	
	18 kW	27 kW	36 kW	45 kW	54 kW	72 kW	90 kW	108 kW	144 kW	180 kV	
Parallel Configuration	Up to 8 ur	nits									
INPUT											
Nominal Voltage	380/400/415 Vac, 3P4W+PE/3P3W+PE										
Voltage Range	324-477 Vac (100% load); 286-324 Vac (with derating to 70-100% load)										
Frequency Range	40-70 Hz										
Total Harmonic Distortion (THDi)	< 3%										
Power Factor	> 0.99 (10	0% load)									
OUTPUT											
Nominal Voltage	380/400/415 Vac, 3P4W+PE (3P3W+PE optional)										
Voltage Regulation	±1% (static); ±3% (dynamic)										
Frequency	50/60 ± 0	50/60 ± 0.05 Hz									
Total Harmonic Distortion (THDv)	< 2% (line	< 2% (linear load); <5% (non-linear load)									
Power Factor	0.9										
Permitted Load Power Factor	leading 0.8 ~ lagging 0.7 (without derating)										
Overload Capability	≤ 110%: 60 mins; 111-125%: 10 mins, 126-150%: 1 min, >150%: 1 sec										
Current Crest Ratio	3:1										
EFFICIENCY	11m to 04 f	-0/									
Online Mode	Up to 94.5										
Eco Mode	Up to 97.5	1%									
BATTERY											
Battery Type	VRLA/Lithium-ion										
Nominal Voltage	393 Vdc	393 Vdc									
Quantity	36-44 pcs	36-44 pcs									
Operational Voltage Limits	346-638	346-638 Vdc									
Maximum Charge Current	10 A	12 A	15 A	17 A	30 A		38 A	45 A	60 A	75 A	
COMMUNICATION INTERFACE											
Display	10-inch color LCD touchscreen										
	USB port x1, RS-232 x1, Input dry contacts x4, Output dry contact x6, Network port x1, REPO x1, Modbus (RS-485) x1										
Port											
	Standard			P/IP HTTP(S	s), SNTP, SM	ITP, DHCP					
Port Remote Emergency Power Off (REPO) Protocols		odbus RTU,	Modbus TC								
Remote Emergency Power Off (REPO) Protocols		odbus RTU,	Modbus TC	,,,,,,,,,,		,					
Remote Emergency Power Off (REPO) Protocols PHYSICAL	SNMP, Mo			.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		, 	200 4 220	) v 1570 mm	1200, 02	0v 1700m	
Remote Emergency Power Off (REPO) Protocols PHYSICAL Dimensions (W x D x H)	SNMP, Mo	x 1420 mm	1	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	*(2)			) x 1570 mm	1200x 83		
Remote Emergency Power Off (REPO) Protocols PHYSICAL Dimensions (W x D x H)	SNMP, Mo			, , , , , , , (c	*(2)	*(2)	800 x 830 593 kg	) x 1570 mm	1200x 83 *(2)	0x 1700m   *(2)	
Remote Emergency Power Off (REPO) Protocols  PHYSICAL Dimensions (W x D x H) Net Weight	SNMP, Mo	x 1420 mm	1	(5	*(2)			) x 1570 mm			
Remote Emergency Power Off (REPO) Protocols  PHYSICAL Dimensions (W x D x H)  Net Weight  ENVIRONMENT	SNMP, Mo	x 1420 mm	1		*(2)			) x 1570 mm			
Remote Emergency Power Off (REPO) Protocols  PHYSICAL Dimensions (W x D x H) Net Weight  ENVIRONMENT Operating Temperature	SNMP, Mo 600 x 830 *(2)	x 1420 mm	1 404 kg		*(2)			) x 1570 mm			
Remote Emergency Power Off (REPO) Protocols  PHYSICAL Dimensions (W x D x H) Net Weight  ENVIRONMENT Operating Temperature Humidity	SNMP, Mo 600 x 830 *(2)  0 to 40°C 0-95% (no	x 1420 mm	1 404 kg					) x 1570 mm			
Remote Emergency Power Off (REPO) Protocols  PHYSICAL Dimensions (W x D x H) Net Weight  ENVIRONMENT Operating Temperature Humidity Altitude	SNMP, Mo 600 x 830 *(2)  0 to 40°C 0-95% (no	x 1420 mm *(2)	404 kg					) x 1570 mm			
Remote Emergency Power Off (REPO) Protocols  PHYSICAL Dimensions (W x D x H) Net Weight  ENVIRONMENT Operating Temperature Humidity Altitude Storage Temperature	SNMP, Mo 600 x 830 *(2)  0 to 40°C 0-95% (no 0-2,000 m	x 1420 mm *(2)	404 kg					) x 1570 mm			
Remote Emergency Power Off (REPO) Protocols  PHYSICAL Dimensions (W x D x H) Net Weight  ENVIRONMENT Operating Temperature Humidity Altitude Storage Temperature Storage Humidity	SNMP, Mo  600 x 830  *(2)  0 to 40°C 0-95% (no 0-2,000 m -20 to 70° 0-95%	x 1420 mm *(2)	404 kg					) x 1570 mm			
Remote Emergency Power Off (REPO) Protocols  PHYSICAL Dimensions (W x D x H) Net Weight  ENVIRONMENT Operating Temperature Humidity Altitude Storage Temperature Storage Humidity Ingress Protection Level	SNMP, Mo  600 x 830  *(2)  0 to 40°C 0-95% (no 0-2,000 m -20 to 70° 0-95%	x 1420 mm  *(2)  on-condens  (derating 1	404 kg					) x 1570 mm			
Remote Emergency Power Off (REPO) Protocols  PHYSICAL Dimensions (W x D x H) Net Weight  ENVIRONMENT Operating Temperature Humidity Altitude Storage Temperature Storage Humidity Ingress Protection Level  CONFORMANCE	SNMP, Mo  600 x 830  *(2)  0 to 40°C 0-95% (no 0-2,000 m -20 to 70° 0-95%	x 1420 mm  *(2)  on-condens  (derating 1	404 kg					) x 1570 mm			
Remote Emergency Power Off (REPO) Protocols  PHYSICAL Dimensions (W x D x H) Net Weight  ENVIRONMENT Operating Temperature Humidity Altitude Storage Temperature Storage Humidity Ingress Protection Level  CONFORMANCE Safety	SNMP, Mo 600 x 830 *(2)  0 to 40°C 0-95% (no 0-2,000 m -20 to 70° 0-95% IP20, IP43	x 1420 mm    *(2)  on-condens n (derating 'CC 8 (optional)	404 kg					0 x 1570 mm			
Remote Emergency Power Off (REPO) Protocols  PHYSICAL Dimensions (W x D x H) Net Weight  ENVIRONMENT Operating Temperature Humidity Altitude Storage Temperature Storage Humidity Ingress Protection Level  CONFORMANCE Safety EMC	SNMP, Mo  600 x 830  *(2)  0 to 40°C 0-95% (no 0-2,000 m -20 to 70° 0-95% IP20, IP43	x 1420 mm    *(2)  on-condens n (derating 'C') 8 (optional)	404 kg					0 x 1570 mm			
Remote Emergency Power Off (REPO) Protocols  PHYSICAL Dimensions (W x D x H) Net Weight  ENVIRONMENT Operating Temperature Humidity Altitude Storage Temperature Storage Humidity Ingress Protection Level  CONFORMANCE Safety EMC Performance	SNMP, Mo  600 x 830  *(2)  0 to 40°C 0-95% (no 0-2,000 m -20 to 70° 0-95% IP20, IP43  CE IEC 62040 IEC 62040	on-condens on (derating of 6 (optional)	404 kg					0 x 1570 mm			
Remote Emergency Power Off (REPO)	SNMP, Mo  600 x 830  *(2)  0 to 40°C 0-95% (no 0-2,000 m -20 to 70° 0-95% IP20, IP43	on-condens on (derating of 6 (optional)	404 kg					0 x 1570 mm			
Remote Emergency Power Off (REPO) Protocols  PHYSICAL Dimensions (W x D x H) Net Weight  ENVIRONMENT Operating Temperature Humidity Altitude Storage Temperature Storage Humidity Ingress Protection Level  CONFORMANCE Safety EMC Performance Sustainability FEATURES	SNMP, Mo 600 x 830 *(2)  0 to 40°C 0-95% (no 0-2,000 m -20 to 70° 0-95% IP20, IP43  CE IEC 62040 IEC 62040 ROHS, REA	on-condens n (derating 1 C 8 (optional)	404 kg	m 1,000-2,00	00 m)	*(2)		) x 1570 mm			
Remote Emergency Power Off (REPO) Protocols  PHYSICAL Dimensions (W x D x H) Net Weight  ENVIRONMENT Operating Temperature Humidity Altitude Storage Temperature Storage Humidity Ingress Protection Level  CONFORMANCE Safety EMC Performance	SNMP, Mo 600 x 830 *(2)  0 to 40°C 0-95% (no 0-2,000 m -20 to 70° 0-95% IP20, IP43  CE IEC 62040 IEC 62040 ROHS, REA	on-condens n (derating 1 C 8 (optional)	404 kg	m 1,000-2,00	00 m)	*(2)		2 x 1570 mm			

(1) Upcoming product

(2) To be released

All specifications are subject to change without prior notice.







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