

ON-LINE DOUBLE CONVERSION CONTINUITY GROUP IRIDIUM SERIES



The series IRIDIUM is a range of UPS, with on-line double conversion and VFI with digital control technology, available with powers from 10 KVA to 20 KVA for single-phase output and 10 KVA to 30 KVA for three-phase output. This Series for its versatility is suitable to feed any electrical and electronic system even in critical situations, in addition to the possibility of using it as a 50/60Hz frequency converter or using motor current generators.

FEATURES

DOUBLE CONVERSION UPS

A true DOUBLE CONVERSION UPS which providing a perfect current, for a high quality complete protection of your sensitive devices, as PC networks (Network), Small computer centers, Servers, Telecommunications, Sanitary/hospital devices and, generally speaking, for all industrial applications.

\bullet ϕ 0.8 OUTPUT POWER FACTOR

Comparing this ON-LINE UPS product class with the competition on the today market, this is the best output power factor. A high performance and efficiency for critical applications is thereby achieved.

• INPUT WIDE RANGE (200 V -500 V)

IRIDIUM is able to provide stable and precise currents to equipment to be connected even in very critical and unstable applications.

• 50/60 Hz FREQUENCY CONVERTER FUNCTION

Lock output frequency to 50Hz or 60Hz regardless of input frequency and eliminates the By-Pass.

• Emergency Power Off (EPO) FUNCTION

This function is devoted to the UPS shutdown by the personnel in case of fire and other emergency events.

• SNMP + USB + RS-232 PARALLEL OPERATION

This feature allows you to have communication by all USB ports, RS-232 and SNMP simultaneously.

• BATTERY CHARGER DESIGNED TO OPTIMIZE BATTERY PERFORMANCE

The IRIDIUM UPS are equipped with a three extensible step battery charger in order to optimize battery performance. This feature prolongs the autonomy and optimizes battery recharge time; in addition, the extension of the battery charger is indispensable to recharge batteries with higher power used for longer capacity.

• MANUAL BY-PASS FOR MAINTENANCE

The manual By-Pass function ensures the lack of voltages inside the UPS for maintenance, leaving power to the other connected equipment.

• Power Factor Correction ON ALL STAGES

PFC improves the quality of the current consumption and increases the energy efficiency, with the consequent economic savings.



DATA SHEET

	TYPE	IRIDIUM TM 10K/20K thr ONLINE DOUBLE C	ree phase / single phase CONVERSION UPS		
	MODEL	IR-TM-10K (S)	IR-TM 20K (S)		
PHASES		Input three phase / output single phase			
	POWER	10000 VA / 8000 W	20000 VA / 16000 W		
INPUT	VOLT RANGE - Low line switch	176 VAC @ 100% load - 110 VAC @ 50% load			
	VOLT RANGE - Low line return	186 VAC @ 100% load - 120 VAC @ 50% load			
	VOLT RANGE - High line switch	300 VAC			
	VOLT RANGE - High line return	290 VAC			
	FREQUENCY RANGE	46~54 Hz ∏ 50Hz / 56~64 Hz ∏ 60Hz			
	PHASES	Three phase with neutral and ground			
	POWER FACTOR P.F.	∏ 0.99 @ 100% load			
OUTPUT	Voltage tolerance (Battery mode)	± 1%			
	Frequency (syncronization range)	46~54 Hz ∏50 Hz / 56~64 Hz ∏ 60 Hz			
	Frequency (Battery mode range)	50 Hz ± 0.1 Hz or 60 Hz ± 0.1 Hz			
	Peak current factor	3:1			
	Harmonyc distorsion	☐ 2 % THD (linear load) ☐ 6 % THD (not linear load)			
	INTERVENTION TIME-From line to battery	Zero			
	INTERVENTION TIME-From bypass to battery	Zero			
	INTERVENTION TIME-Wave form (Battery Mode)	Pure sine wave			
	WITH NETWORK OPERATING	90%			
EFFICIENCY	WITH BATTERY OPERATING	88%			
	BATTERY TYPE	12 V / 9 AH			
	BATTERY QUANTITY	20	40		
BATTERY	TYPICAL RECHARGE TIME	7 hours 90% capacity	9 hours 90% capacity		
Standard Model	CHARGING CURRENT (MAX.)	1.0 A	2.0 A		
	CHARGING VOLTAGE	273.0 VDC			
	BATTERY TYPE	Depending on the capacity of external batteries according to the required capacity			
BATTERY	BATTERY QUANTITY	Depending on the capacity of external batteries according to the required capacity			
High capacity Model (S)	CHARGING CURRENT (MAX.)	4.0 A 8.0 A			
Model (3)	CHARGING VOLTAGE	273.0 VDC			
REPORTING	LCD PANEL	UPS status, load level, Battery level, Input/output voltage, battery discharge time, failure status			
	BATTERY OPERATION	Sound every 4 seconds			
ALADME	LOW BATTERY	Sound every second			
ALARMS	OVERLOAD	Double sound every second			
	FAULT	Continuous sound			
WEIGHT AND DIMENSIONS STANDARD MODEL	DIMENSION, W x L x H (mm)	592 X 250 X 576	862 X 250 X 826		
	NET WEIGHT (kg)	83	139		
WEIGHT AND DIMENSIONS MODELLO S	DIMENSION, W x L x H (mm)	592 X 250 X 576			
	NET WEIGHT (kg)	24 37			
ENVIRONMENTAL DATA	OPERATING HUMIDITY	20-90 % RH @ 0- 40°C (v	without condensation)		
	NOISE LEVEL	< 45dBA @ 1 meter	< 60dB @ 1 meter		
INTERFACES	SMART RS-232/USB	Windows family, Novell, Linux and FreeBSD			
		Power management for SNMP manager and web browser			

 $^{^{\}star}$ (S) Identify high capacity models

 $[\]ensuremath{^{\star}}$ Product specifications could be subject to change without notice



DATA SHEET

TYPE		IRIDIUM 10K/20K/30K three phase / three phase ONLINE DOUBLE CONVERSION			
	MODEL	IR-TT 10K	IR-TT 20K	IR-TT 30K	
PHASES		Input Three phase Input / Output Three phase			
	POWER	10 KVA / 8 KW	20 KVA / 16 KW	30 KVA / 24 KW	
INPUT	VOLT RANGE - Low line switch	3 x 400Vac (Three phase with neutral and ground)			
	VOLT RANGE - Low line return	305 - 478 VAC (F/F) @ 100% load - 190 - 520 VAC (F/F) @ 50% load			
	VOLT RANGE - High line switch	46~54 Hz ∏ 50Hz / 56~64 Hz ∏ 60Hz			
	VOLT RANGE - High line return	Three phase with neutral and ground			
	FREQUENCY RANGE	≥ 0.99 @ 100% load			
	PHASES	< 6% @ 100% load			
	POWER FACTOR P.F.	360 - 380 - 400 - 415V Three phase with neutral and ground			
OUTPUT	VOLTAGE TOLERANCE (Battery mode)	± 1%			
	FREQUENCY (syncronization range)	46~54 Hz ∏ 50 Hz / 56~64 Hz ∏ 60 Hz			
	FREQUENCY (Battery mode range)	50 Hz ± 0.1 Hz or 60 Hz ± 0.1 Hz			
	PEAK CURRENT FACTOR	3:1			
	HARMONYC DISTORSION	≤ 2 % THD (linear load) ≤ 5 % THD (not linear load)			
	INTERVENTION TIME-From line to battery	Zero			
	INTERVENTION TIME-From bypass to battery	Zero			
	INTERVENTION TIME-Wave form (Battery Mode)	Pure sine wave			
	WITH NETWORK OPERATING	89 - 90%			
EFFICIENCY	WITH BATTERY OPERATING	86 ÷ 89%			
	BATTERY TYPE	12 V / 9 AH			
BATTERY	BATTERY QUANTITY	20	2 x 20	3 x 20	
	TYPICAL RECHARGE TIME	1.0 A	2.0 A	4.0 A	
Standard Model	CHARGING CURRENT (MAX.)	273.0 VDC			
	CHARGING VOLTAGE	41.0 VDC ± 1% 82.1 VDC ±1%			
	BATTERY TYPE	Depending on the capacity of external batteries according to the required capacity			
BATTERY	BATTERY QUANTITY	Depending on the capacity of external batteries according to the required capacity			
High capacity Model (S)	CHARGING CURRENT (MAX.)	4.0 A	8.0 A	12.0 A	
	CHARGING VOLTAGE	273.0 VDC			
REPORTING	LCD PANEL	UPS status, load level, Battery level, Input/output voltage, battery discharge time, failure status			
	BATTERY OPERATION	Sound every 4 seconds			
ALARMS	LOW BATTERY	Sound every second			
ALAKWIS	OVERLOAD	Double sound every second			
	FAULT	Continuous sound			
WEIGHT AND DIMENSIONS STANDARD MODEL	DIMENSION, W x L x H (mm)	815 X 250 X 826	815 X 250 X 826	815 X 300 X 1000	
	NET WEIGHT (kg)	109	164	234	
WEIGHT AND DIMENSIONS MODELLO S	DIMENSION, W x L x H (mm)	592 X 250	0 X 826	815 X 250 X 826	
	NET WEIGHT (kg)	38	40	64	
ENVIRONMENTAL DATA	OPERATING HUMIDITY	0-90 % RH @ 0- 40°C (without condensation)			
	NOISE LEVEL	< 60dBA @ 1 meter < 65dB @ 1 meter			
INTERFACES	SMART RS-232/USB	Windows family, Linux, Unix and MAC			
	OPTIONAL SNMP	Power management for SNMP manager and web browser			

 $^{^{\}star}\,$ (S) Identify high capacity models

^{*} Product specifications could be subject to change without notice





Via Gaetano Donizetti, 109/111 - 24030 Brembate Di Sopra (BG) Geller Business Centre - D2 Building

Phone **+39 035 4379962** Fax **+39 035 592935** sales@zutronic.it - **www.zutronic.it**

