

# KEOR T EVO - On-line double conversion UPS

(tower) - three phase VFI SS 111



# KEOR T EVO

technical characteristics



3 102 70

For civil, commercial, industrial automation and IT applications requiring small three phase power (up to 20 kVA) with standard back up time in compact footprint

Installation: downstream power generators

3 level IGBT inverter

DSP advanced control logic

Power factor: 1 (kVA = kW)

Efficiency up to 95 %

Internal Batteries

Touch Screen Display

Parallel connection possible: up to 4 UPSs

Dedicated input bypass line

Embedded manual bypass

Full connectivity with RS232, RS485 (ModBus), 4xDry contacts, Net

Interface Slot (SNMP), EPO, Generator Friendly port

Equipped with wheels for easy moving of the UPS

Pack	Cat.Nos	UPS			
		Nominal power (kW)	Backup time (min)	Dimensions H x W x D (mm)	Net weight (kg)
1	3 102 70	10	0	1020 x 265 x 800	78
1	3 102 71	10	10	1020 x 265 x 800	145
1	3 102 72	10	15	1020 x 265 x 800	168
1	3 102 73	15	0	1020 x 265 x 800	79
1	3 102 74	15	7	1020 x 265 x 800	163
1	3 102 75	15	10	1020 x 265 x 800	180
1	3 102 76	20	0	1020 x 265 x 800	84
1	3 102 77	20	7	1020 x 265 x 800	185

## Accessories

1	3 109 15	Parallel kit/UPS (PCB + 5 m cable)
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	3 102 70	3 102 73	3 102 76
General Characteristics	KEOR T EVO 10	KEOR T EVO 15	KEOR T EVO 20
Nominal Power (kVA)	10	15	20
Active Power (kW)	10	15	20
Technology	Online Double Conversion		
Waveform	Sinusoidal		
Architecture	Stand Alone or Distributed Parallel up to 4 units		
Input Characteristics			
Input Voltage	380, 400, 415 V 3 Ph+N+PE		
Input Frequency	45-65 Hz		
Input Voltage Range (Ph-Ph)	half load 208-459 V / full load 358-459 V		
THD of input current	< 5 % at full load		
Compatibility with Diesel Generators	Configurable for synchronization between the input and output frequencies, even for high frequency variations		
Input power factor	> 0.99		
Output Characteristics			
Output Voltage	380, 400, 415V 3 Ph+N+PE Adjustable from front panel		
Efficiency	up to 95 %		
Efficiency in ECO mode	up to 98.5 %		
Output frequency (nominal)	50/60 Hz ± 0.01 % free run (adjustable from Front Panel)		
Crest Factor	2.5:1		
THD of output voltage	< 2 % (at full linear load)		
Output power factor	1		
Output voltage tolerance	± 1 %		
Overload Capability	10 min at 125 %; 60 sec at 150 %		
By-pass	Built in Automatic and Maintenance By-pass		
Batteries			
Battery type	VRLA-AGM Maintenance free		
Internal batteries	Yes		
Battery test	Automatic or manual		
Battery recharge profile	IU (DIN41773)		
Communication and management			
Control Panel Display	Touch screen, led bar status, live synoptic view in real time		
Communication ports	RS232, Genset, Programmable 4 Relays contacts, ModBus		
BackFeed protection	Embedded		
Audible alarm	Acoustic alarms and warnings		
Net interface slot	yes for optional net Interface card (SNMP)		
Emergency Power Off (EPO)	Yes		
Remote Management	Available		
Physical characteristics			
Dimensions (H - W - D) mm	1020 x 265 x 800		
UPS Net Weight without internal battery (kg)	78	79	84
Color	RAL 7016 (Anthracite grey; Standard) RAL 9005 (Glossy Black)		
Environmental conditions			
Operating Temperature (°C)	0 - 40 °C (Recommended temperature for longer Battery Life: 20-25 °C)		
Relative Humidity Range	20-95 % (Non-Condensing)		
Protection degree	IP 20		
Acoustic Noise at 1m (dBA)	< 51		
Compliance			
Reference product standards	IEC/EN 62040-1, IEC/EN 62040-2, IEC/EN 62040-3		

