

Use

Local Area Network (LAN), Data Centers, Industrial equipment, Electromedical equipment

Protection

- Blackout
- Dynamic Undervoltage
- Dynamic Overvoltage
- Undervoltage
- Overvoltage
- Lightning (UPS + surge discharger upstream)
- Voltage Surge
- Frequency Variation
- Voltage Distortion
- Voltage Harmonic

Main specification

- Multifunctional LCD display
- On-Line Double Conversion Technology without transformer (VFI-SS-111)
- Rectifier realized by IGBT technology
- Active PFC Circuit (0.99)
- Harmonic correction circuit ($\leq 4\%$)
- Wide input voltage tolerance
- Advanced interfacing with generator
- EPO (Emergency Power Off)
- ECO MODE operation
- Battery recharge system managed by microprocessor
- Separate bypass input
- Static and manual bypass
- RS232 and RS422 communication ports
- Intelligent slot for SNMP or dry contact card
- Expandable up to 4 units in parallel
- High efficiency and low operating cost

DSP

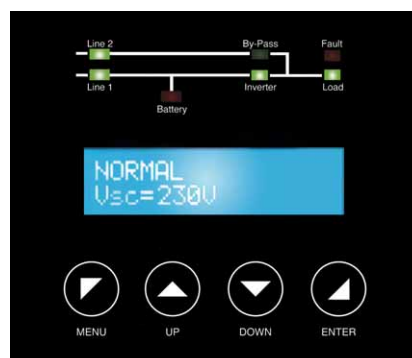
The UPS EVO DSP are controlled by DSP Digital Signal Processor (DSP) which optimizes the machine operation in any conditions permitting a complete and easy programming.



The UPS range EVO DSP is designed in accordance with the highest environment protection standards. The high efficiency and low harmonic inputs guarantee the uppermost respect for the environment.



REFURBISHED COMPONENTS



Multifunction LCD display

UPS EVO DSP TM

10-15-20-30

ON LINE TM / TT

Specification

UPS Model	EVO DSP 10.0 TM	EVO DSP 15.0 TM	EVO DSP 20.0 TM	EVO DSP 30.0 TM
Nominal power	10 KVA	15 KVA	20 KVA	30 KVA
Active power	8 KW	12 KW	16 KW	24 KW
Power factor	0.8			
Technology	On-Line Double Conversion transformerless (VFI-SS-111)			
Cooling	Fan cooling			
Audible noise	< 48 dBA a 1 m		< 52 dBA a 1 m	
Dimension (UPS) WxHxD	40x107x78 cm			
Dimension (with packing) WxHxD	72,5x127,5x87,5 cm			
Input				
Number of phases	3ph+N			
Nominal voltage	380Vac/400Vac/415Vac			
Input voltage range (F-N)	187Vac-280Vac to 100% load, 120Vac-280Vac to 64% load, 80Vac-280Vac to 42% load			
Nominal frequency	50/60 Hz			
Input frequency range On-Line mode	±10%			
Input current harmonic distortion (THDi)	≤4%			
Input power factor	0.99			
Output				
Number of phases	1ph+N			
Nominal voltage	220Vac/230Vac/240Vac			
Voltage Regulation at %100 linear load (On-Line and battery mode)	±1%			
Voltage THD at rated linear load	<3% (linear load)			
Crest factor	3:1			
Frequency	50/60 Hz			
Frequency stability	±0.1 Hz			
Inverter waveform	Sinewave			
Overload capability	125% for 10 minutes - 150% for 1 minute			
Efficiency	>94% (On-Line mode), >92% (Battery mode), >99% (ECO mode)			
Transfer time	0 ms (On-Line)			
Output connections	Terminal block			
Bypass				
Number of phases	1ph+N			
Nominal voltage (F-N)	220Vac/230Vac/240Vac			
Voltage range	± 10%			
Frequency range	± 5%			
Eco Mode				
Voltage range	± 10%			
Input frequency range	± 5%			
Battery				
Type	Lead acid, sealed, maintenance free			
Batteries number	62 (2x31 - Installed inside)			
Battery charge time (typical)	6-8 hours			
Nominal voltage	372Vdc + 372Vdc			
Extended autonomy	External Battery Box (optional)			
Interfacing				
Interface (communication port)	RS232 and RS422			
Dry contact interface	Power failure, low battery, Bypass mode, no output power			
EPO	Yes			
Generator adaptability	Yes			
Software	Generex UPS Management (compatible with WINDOWS, UNIX, LINUX, MAC OS X, SUN SOLARIS) - optional			
SNMP interface	SNMP Generex internal module CS121BSC model - optional			
Parallel configuration				
Parallel interface	Yes (optional)			
Redundant parallel system	up to 4 units			
Environmental specification				
Storage temperature	From -15 to 40 °C (for UPS with battery inside, see “Storage of batteries in UPS and Battery Box” graphic)			
Working temperature	From 0 to 40 °C (recommended from 20 to 25 °C, for longer battery life see “Battery life in service” graphic)			
Humidity	< 95% without condensation			
Maximum altitude	3000 m			
IP protection	IP20			
Certifications	CE (Standards: Low Voltage Directive IEC EN 62040-1; EMC Directive IEC EN 62040-2; classification IEC EN 62040-3)			
Warranty				
Standard	12 months electronic parts and 12 months batteries			
Extensions	Optional			

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Accessories

Model	Code
Bypass Box for Evo Dsp TM 10 KVA	FGCBYP10TM
Bypass Box for Evo Dsp TM 15-20 KVA	FGCBYP20TM
Bypass Box for Evo Dsp TM 30 KVA	FGCBYP30TM
Internal SNMP for Evo Dsp TM/TT	FGCNETAG6
Remote Panel for Evo Dsp TM/TT	FGCEVODSRP1
Remote Panel cable for Evo Dsp TM/TT 25m length	FGCEVODSCARP1
Upsman software Interfacing UPS + RCCMD Client for Client management + 1 license for RCCMD	FGCSWUMSU
RCCMD Client License	FGCSWUMMS
UPS with isolation transformer installed inside (in this configuration the UPS can't contain batteries inside)	UPS Code + Final "I"
Ups configured for Parallel connection	UPS Code + Final "P"

To extend autonomy see page 46



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- Harmonic Correction Circuit ($\leq 4\%$)
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- ECO MODE operation
- Battery Recharge System managed by Microprocessor
- Static and Manual Bypass
- RS232 and RS422 communication ports
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REFURBISHED
COMPONENTS



DSP

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Multifunction LCD display

UPS EVO DSP TT

10-15-20-30

ON LINE TM / TT

Specification

UPS Model	EVO DSP 10.0 TT	EVO DSP 15.0 TT	EVO DSP 20.0 TT	EVO DSP 30.0 TT
Nominal power	10 KVA	15 KVA	20 KVA	30 KVA
Active power	8 KW	12 KW	16 KW	24 KW
Power factor	0.8			
Technology	On-Line Double Conversion transformerless (VFI-SS-111)			
Cooling	Fan cooling			
Audible noise	< 48 dBA a 1 m		< 52 dBA a 1 m	
Dimension (UPS) WxHxD	40x107x78 cm			
Dimension (with packing) WxHxD	72,5x127,5x87,5 cm			
Input				
Number of phases	3ph+N			
Nominal voltage	380Vac/400Vac/415Vac			
Input voltage range (F-N)	187Vac-280Vac to 100% load, 120Vac-280Vac to 64% load, 80Vac-280Vac to 42% load			
Nominal frequency	50/60 Hz			
Input frequency range On-Line mode	±10%			
Input current harmonic distortion (THDi)	≤4%			
Input power factor	0.99			
Output				
Number of phases	3ph+N			
Nominal voltage	380Vac/400Vac/415Vac			
Voltage Regulation at %100 linear load (On-Line and battery mode)	±1%			
Voltage THD at rated linear load	<3% (linear load)			
Crest factor	3:1			
Frequency	50/60 Hz			
Frequency stability	±0.1 Hz			
Inverter waveform	Sinewave			
Overload capability	125% for 10 minutes - 150% for 1 minute			
Efficiency	>94% (On-Line mode), >92% (Battery mode), >99% (ECO mode)			
Transfer time	0 ms (On-Line)			
Output connections	Terminal block			
Bypass				
Number of phases	3ph+N			
Nominal voltage (F-N)	220Vac/230Vac/240Vac			
Voltage range	± 10%			
Frequency range	± 5%			
Eco Mode				
Voltage range	± 10%			
Input frequency range	± 5%			
Battery				
Type	Lead acid, sealed, maintenance free			
Batteries number	62 (2x31 - Installed inside)			
Battery charge time (typical)	6-8 hours			
Nominal voltage	372Vdc + 372Vdc			
Extended autonomy	External Battery Box (optional)			
Interfacing				
Interface (communication port)	RS232 and RS422			
Dry contact interface	Power failure, low battery, Bypass mode,no output power			
EPO	Yes			
Generator adaptability	Yes			
Software	Genex UPS Management (Compatible with WINDOWS, UNIX, LINUX, MAC OS X, SUN SOLARIS) - optional			
SNMP interface	SNMP Genex internal module CS121BSC model - optional			
Parallel configuration				
Parallel interface	Yes (optional)			
Redundant parallel system	up to 4 units			
Environmental specification				
Storage temperature	From -15 to 40 °C (for UPS with battery inside, see "Storage of batteries in UPS and Battery Box" graphic)			
Working temperature	From 0 to 40 °C (recommended from 20 to 25 °C, for longer battery life see "Battery life in service" graphic)			
Humidity	< 95% without condensation			
Maximum altitude	3000 m			
IP protection	IP20			
Certifications	CE (standards: Low Voltage Directive IEC EN 62040-1; EMC Directive IEC EN 62040-2; classification IEC EN 62040-3)			
Warranty				
Standard	12 months electronic parts and 12 months batteries			
Extensions	Optional			

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Accessories

Model	Code
Bypass Box for Evo Dsp TT 10-30 KVA	FGCBYP30TT
Internal SNMP for Evo Dsp TM/TT	FGCNETAG6
Remote Panel for Evo Dsp TM/TT	FGCEVODSRP1
Remote Panel cable for Evo Dsp TM/TT 25m length	FGCEVODSCARP1
Upsman software Interfacing UPS + RCCMD Client for Client management + 1 license for RCCMD	FGCSWUMSU
RCCMD Client License	FGCSWUMMS
Separated Bypass input	On request
UPS with isolation transformer installed inside (in this configuration the UPS can't contain batteries inside)	UPS Code + Final "I"
UPS configured for Parallel connection	UPS Code + Final "P"

To extend autonomy see page 46



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Main specification

- Multifunctional LCD Display
- On-Line Double Conversion Technology without transformer (VFI-SS-111)
- Rectifier realized by IGBT technology
- Active PFC Circuit (0.99)
- Harmonic Correction Circuit ($\leq 4\%$)
- Wide input voltage tolerance.
- Advanced interfacing with generator
- EPO (Emergency Power Off)
- ECO MODE operation
- Battery Recharge System managed by Microprocessor
- Static and Manual Bypass
- RS232 and RS422 communication ports
- Intelligent slot for SNMP or Dry Contact card
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Multifunction LCD display

UPS EVO DSP TT

40-60

ON LINE TM / TT

Specification

UPS Model	EVO DSP 40.0 TT	EVO DSP 60.0 TT
Nominal power	40 KVA	60 KVA
Active power	32 KW	48 KW
Power factor	0.8	
Technology	On-Line Double Conversion transformerless (VFI-SS-111)	
Cooling	Fan cooling	
Audible noise	< 55 dBA a 1 m	
Dimension (UPS) WxHxD	52x130x90 cm	
Dimension (with packing) WxHxD	87x162x114 cm	
Input		
Number of phases	3ph+N	
Nominal voltage	380Vac/400Vac/415Vac	
Input voltage range (F-N)	187Vac-280Vac to 100% load, 120Vac-280Vac to 64% load, 80Vac-280Vac to 42% load	
Nominal frequency	50/60 Hz	
Input frequency range On-Line mode	±10%	
Input current harmonic distortion (THDi)	≤4%	
Input power factor	0.99	
Output		
Number of phases	3ph+N	
Nominal voltage	380Vac/400Vac/415Vac	
Voltage Regulation at %100 linear load (On-Line and battery mode)	±1%	
Voltage THD at rated linear load	<3% (linear load)	
Crest factor	3:1	
Frequency	50/60 Hz	
Frequency stability	±0.1 Hz	
Inverter waveform	Sinewave	
Overload capability	125% for 10 minutes - 150% for 1 minute	
Efficiency	>94% (On-Line mode), >92% (Battery mode), >99% (ECO mode)	
Transfer time	0 ms (On-Line)	
Output connections	Terminal block	
Bypass		
Number of phases	3ph+N	
Nominal voltage (F-N)	220Vac/230Vac/240Vac ± 10%	
Voltage range	± 10%	
Frequency range	± 5%	
Eco Mode		
Voltage range	± 10%	
Input frequency range	± 5%	
Battery (inside the external Battery Box)		
Type	Lead acid, sealed, maintenance free	
Batteries number	62 (2x31) (inside the external Battery Box for UPS operation)	
Battery charge time (typical)	6-8 hours	
Nominal battery voltage	372Vdc + 372Vdc	
Extended autonomy	External Battery Box (optional)	
Interfacing		
Interface (communication port)	RS232 and RS422	
Dry contact interface	Power failure, low battery, Bypass mode,no output power	
EPO	Yes	
Generator adaptability	Yes	
Software	Genex UPS Management (Compatible with WINDOWS, UNIX, LINUX, MAC OS X, SUN SOLARIS) - optional	
SNMP interface	SNMP Genex internal module CS121BSC model - optional	
Parallel configuration		
Parallel interface	Yes (optional)	
Redundant parallel system	Up to 4 units	
Environmental specification		
Storage temperature	From -15 to 40 °C (for UPS with battery inside, see "Storage of batteries in UPS and Battery Box" graphic)	
Working temperature	From 0 to 40 °C (recommended from 20 to 25 °C, for longer battery life see "Battery life in service" graphic)	
Humidity	< 95% without condensation	
Maximum altitude	3000 m	
IP protection	IP20	
Certifications	CE (Standards: Low Voltage Directive IEC EN 62040-1; EMC Directive IEC EN 62040-2; classification IEC EN 62040-3)	
Warranty		
Standard	12 months electronic parts and 12 months batteries	
Extensions	Optional	

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Accessories

Model	Code
Bypass Box for Evo Dsp TT 40-60 KVA	FGCBYP60TT
Internal SNMP for Evo Dsp TM/TT	FGCNETAG6
Remote Panel for Evo Dsp TM/TT	FGCEVODSRP1
Remote Panel cable for Evo Dsp TM/TT 25m length	FGCEVODSCARP1
Upsman software Interfacing UPS + RCCMD Client for Client management + 1 license for RCCMD	FGCSWUMSU
RCCMD Client License	FGCSWUMMS
Separated Bypass input	On request
UPS with isolation transformer installed inside (in this configuration the UPS can't contain batteries inside)	UPS Code + Final "I"
UPS configured for Parallel connection	UPS Code + Final "P"

To extend autonomy see page 46



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- Blackout
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Main specification

- Multifunctional LCD Display
- On-Line Double Conversion Technology without transformer (VFI-SS-111)
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- Harmonic Correction Circuit ($\leq 4\%$)
- Wide input voltage tolerance.
- Advanced interfacing with generator
- EPO (Emergency Power Off)
- ECO MODE operation
- Battery Recharge System managed by Microprocessor
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**DSP**

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Multifunction LCD display

UPS EVO DSP TT

80-100

ON LINE TM / TT

Specification

UPS Model	EVO DSP 80.0 TT	EVO DSP 100.0 TT
Nominal power	80 KVA	100 KVA
Active power	64 KW	80 KW
Power factor	0.8	
Technology	On-Line Double Conversion transformerless (VFI-SS-111)	
Cooling	Fan cooling	
Audible noise	< 55 dBA a 1 m	
Dimension (UPS) WxHxD	52x130x95 cm	64x140x98 cm
Dimension (with packing) WxHxD	95x176,5x95 cm	87x162x114 cm
Input		
Number of phases	3ph+N	
Nominal voltage	380Vac/400Vac/415Vac	
Input voltage range (F-N)	187Vac-280Vac to 100% load, 120Vac-280Vac to 64% load, 80Vac-280Vac to 42% load	
Nominal frequency	50/60 Hz	
Frequency range for On-Line mode	±10%	
Input current harmonic distortion (THDi)	≤4%	
Input power factor	0.99	
Output		
Number of phases	3ph+N	
Nominal voltage	380Vac/400Vac/415Vac	
Voltage Regulation at %100 linear load (On-Line and battery mode)	±1%	
Voltage THD at rated linear load	<3% (linear load)	
Crest factor	3:1	
Frequency	50/60 Hz	
Frequency stability	±0.1 Hz	
Inverter waveform	Sinewave	
Overload capability	125% for 10 minutes 150% for 1 minute	
Efficiency	>94% (On-Line mode), >92% (Battery mode), >99% (ECO mode)	
Transfer time	0 ms (On-Line)	
Output connections	Terminal block	
Bypass		
Number of phases	3ph+N	
Nominal voltage (L-N)	220Vac/230Vac/240Vac ± 10%	
Voltage range	± 10%	
Frequency range	± 5%	
Eco Mode		
Voltage range	± 10%	
Frequency range	± 5%	
Battery (inside the external Battery Box)		
Batteries number	62 (2x31) (inside the external Battery Box for UPS operation)	
Type	Lead acid, sealed, maintenance free	
Battery charge time (Typical)	6-8 hours	
Nominal battery voltage	372Vdc + 372Vdc	
Extended autonomy	External Battery Box (optional)	
Interfacing		
Interface (communication port)	RS232 and RS422	
Dry contact signals	Power failure, low battery, Bypass mode,no output power	
EPO	Yes	
Generator adaptability	Yes	
Software	Generex UPS Management (Compatible with WINDOWS, UNIX, LINUX, MAC OS X, SUN SOLARIS) - optional	
SNMP Interface	SNMP Generex internal module CS121BSC model - optional	
Parallel configuration		
Parallel interface	Yes (optional)	
Redundant parallel system	Up to 4 unit	
Environmental specification		
Storage temperature	From -15 to 40 °C (for UPS with battery inside, see “Storage of batteries in UPS and Battery Box” graphic)	
Working temperature	From 0 to 40 °C (recommended from 20 to 25 °C, for longer battery life see “Battery life in service” graphic)	
Humidity	< 95% without condensation	
Maximum altitude	3000 m	
IP protection	IP20	
Certifications	CE (Standards: Low Voltage Directive IEC EN 62040-1; EMC Directive IEC EN 62040-2; classification IEC EN 62040-3)	
Warranty		
Standard	12 months electronic parts and 12 months batteries	
Extensions	Optional	

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Accessories

Model	Code
Bypass Box for Evo Dsp TT 80 KVA	FGCBYP80TT
Bypass Box for Evo Dsp TT 100 KVA	FGCBYP100TT
Internal Snmp for Evo Dsp TM/TT	FGCNETAG6
Remote Panel for Evo Dsp TM/TT	FGCEVODSRP1
Remote Panel cable for Evo Dsp TM/TT 25m length	FGCEVODSCARP1
Upsman software Interfacing UPS + RCCMD Client for Client management + 1 license for RCCMD	FGCSWUMSU
RCCMD Client License	FGCSWUMMS
Separated Bypass input	On request
Isolation transformer for Evo Dsp TT 80 KVA (not be installed inside the UPS)	FGCIT80DSP
Isolation transformer for Evo Dsp TT100 KVA (not be installed inside the UPS)	FGCIT100DSP
UPS configured for Parallel connection	UPS Code + final "P"

To extend autonomy see page 46



Main specification

- Front door for access to battery compartments
- Removable side panels
- Isolator fuse protecting the battery circuit
- Easy Maintenance



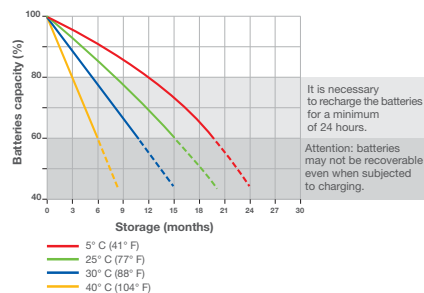
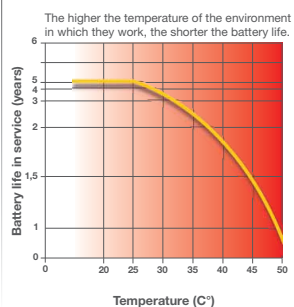
Battery Box V1 type for Evo DSP TM/TT



Battery Box V14 type for Evo DSP TM/TT



Battery Box V34/V33 type for Evo DSP TM/TT

Storage of batteries in UPS and Battery Boxes**Battery life in service**

EVO DSP TM / TT

BATTERY BOX

ON LINE TM / TT

Specification Battery Box V1 type for EVO DSP TM/TT

Modello	BATTERY BOX PER EVO DSP TM/TT 10.0-30.0		
Code	FBBV1/07	FBBV1/09	FBBV1/11
Dimension (Box) WxHxD		26 x 74 x 63,5 cm	
Dimension (with packing) WxHxD		36 x 92,5 x 74,5 cm	
Weight	174 Kg	187 Kg	207 Kg
Equipped with	Battery charger power cable, battery cable to connect UPS to Battery Box		
Battery			
Type	Lead acid, sealed, maintenance free		
Batteries number	2x31		
Nominal battery voltage	2x372Vdc		
Battery specification	12Vdc - 7,2Ah	12Vdc - 9Ah	12Vdc - 11Ah
Protection			
Battery circuit	Thermal fuse		
Environmental specification			
Storage temperature	From -15 to 40 °C (for Battery Box with battery inside, see "Storage of batteries in UPS and Battery Box" graphic)		
Working temperature	From 0 to 40 °C (recommended from 20 to 25 °C, for longer battery life see "Battery life in service" graphic)		
Humidity	< 95% without condensation		
Maximum altitude	3000 m		
IP protection	IP20		
Certifications	CE		
Warranty			
Standard	12 months electronic parts and 12 months batteries		

Specification Battery Box V14 type for EVO DSP TM/TT

Model	BATTERY BOX FOR EVO DSP TM/TT 10.0-40.0		
Code	FBBV14/17		
Dimension (Box) WxHxD	40,4 x 110,2 x 75,3 cm		
Dimension (with packing) WxHxD	72,5 x 127,5 x 87,5 cm		
Weight	422 Kg		
Equipped with	Battery charger power cable, battery cable to connect UPS to Battery Box		
Battery			
Type	Lead acid, sealed, maintenance free		
Batteries number	2x31		
Nominal battery voltage	2x372Vdc		
Battery specification	12Vdc - 17Ah		
Protection			
Battery circuit	Thermal fuse		
Environmental specification			
Storage temperature	From -15 to 40 °C (for Battery Box with battery inside, see "Storage of batteries in UPS and Battery Box" graphic)		
Working temperature	From 0 to 40 °C (recommended from 20 to 25 °C, for longer battery life see "Battery life in service" graphic)		
Humidity	< 95% without condensation		
Maximum altitude	3000 m		
IP protection	IP20		
Certifications	CE		
Warranty			
Standard	12 months electronic parts and 12 months batteries		

Specification Battery Box V34 type for EVO DSP TM/TT

Model	BATTERY BOX FOR EVO DSP TM/TT 10.0-100.0		
Code	FBBV34/26	FBBV34/40	
Dimension (Box) WxHxD		83,3 x 130,9 x 114,7 cm	
Dimension (with packing) WxHxD		94,5 x 155 x 123,5 cm	
Weight	670 Kg		1000 Kg
Equipped with	Battery charger power cable, battery cable to connect UPS to Battery Box		
Battery			
Type	Lead acid, sealed, maintenance free		
Batteries number	2x31		
Nominal battery voltage	2x372Vdc		
Battery specification	12Vdc - 26Ah		12Vdc - 40Ah
Protection			
Battery circuit	Thermal fuse		
Environmental specification			
Storage temperature	From -15 to 40 °C (for Battery Box with battery inside, see "Storage of batteries in UPS and Battery Box" graphic)		
Working temperature	From 0 to 40 °C (recommended from 20 to 25 °C, for longer battery life see "Battery life in service" graphic)		
Humidity	< 95% without condensation		
Maximum altitude	3000 m		
IP protection	IP20		
Certifications	CE		
Warranty			
Standard	12 months electronic parts and 12 months batteries		

Specification Battery Box V33 type for EVO DSP TT

Model	BATTERY BOX FOR EVO DSP TT 40.0-100.0		
Code	2xFBBV33/65	2xFBBV33/80	2xFBBV33/100
Dimension (Box) WxHxD		83,3 x 130,9 x 114,7 cm	
Dimension (with packing) WxHxD		94,5 x 155 x 123,5 cm	
Weight	2x800 Kg	2x925 Kg	2x1100 Kg
Equipped with	Battery cable to connect UPS to Battery Box		
Battery			
Type	Lead acid, sealed, maintenance free		
Batteries number	2x31		
Nominal battery voltage	2x372Vdc		
Battery specification	12Vdc - 65Ah	12Vdc - 80Ah	12Vdc - 100Ah
Protection			
Battery circuit	Thermal fuse		
Environmental specification			
Storage temperature	From -15 to 40 °C (for Battery Box with battery inside, see "Storage of batteries in UPS and Battery Box" graphic)		
Working temperature	From 0 to 40 °C (recommended from 20 to 25 °C, for longer battery life see "Battery life in service" graphic)		
Humidity	< 95% without condensation		
Maximum altitude	3000 m		
IP protection	IP20		
Certifications	CE		
Warranty			
Standard	12 months electronic parts and 12 months batteries		

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