

DATA CENTER HOME &

OFFICE

 MALLS & FACILITIES



TEOS+ 200 10-20kVA

Advanced DSP and 3-Level Technology

High Efficiency

Power Factor 1.0



GENERAL SPECIFICATIONS

- Advanced DSP and 3-Level technology
- Output power factor 1.0
- Active power factor correction (APFC), input power factor up to 0.99
- High efficiency 95% (up to 98% in ECO mode)
- Advanced digital parallel technology
- 3:1 to 1:1 model settable
- Wide input voltage range (190 499 Vac) and frequency range (40 70Hz)
- 50 / 60 Hz frequency auto sensing
- Two modes of frequency conversion: 50Hz input / 60Hz output or 60Hz input / 50Hz output
- Dual-input design, supporting independent bypass
- Flexible battery configuration (settable 16 20 pcs batteries)
- Digitally controlled charger
- High charging current available (Max. 10 A)
- Charging voltage and current configured by demands
- Linear debating in low voltage input reducing battery discharging times, extending the service life of battery
- Intelligent battery management, automatic floating / equalizing charge control, charger dormancy control, increasing battery life by 50%



- Ability to switch on the UPS with batteries
- Settable delayed start time when mains power is restored, reducing the impact on power grid or generator
- Fan speed varies intelligently with temperature, reducing noise and extending its service life
- Equipped with self-aging function
- Compact internal layout, miniaturized the complete unit for small footprint
- LCD+LED display, multi-functional keys operation, friendly human-machine interface
- Powerful background software for parameters configuration
- Advanced multi-platform communications: RS232, USB, RS485, SNMP and dry contacts communication interfaces
- Effective software and hardware protection function, robust and self-diagnostic function, and abundant event log for check

AVAILABLE OPTIONS

- RS232 and smart card slot included
- Optional parallel function, battery temperature compensation, SNMP card, USB, RS485 card, dry contacts, EMD, and SMS alarms

TECHNICAL SPECIFICATIONS

<table-container>Capacity10 kW / 10 kW / 10 kW / 10 kW15 kW / 15 kW</table-container>	MODEL	Teos+ 210	Teos+ 215	Teos+ 220	
indust sing Interseptise files wite Si0 + 30 / 40 / 41 Size. failed solige Si0 / 40 / 41 Size. Walteg einge Sin / 40 / 41 Size. Sind frequency Sin / 40 / 41 Size. Frequency range -40 - 70 Hz Frequency range -10 - 70 Fz Frequency range -10 Fz	Capacity	10 kVA / 10 kW	15 kVA / 15 kW	20 kVA / 20 kW	
Pated voltage 380 / 400 / 413 Vac Veltage range 100-305 Vac (linear deciting between 50% and 100% load); 305-497 Vac (no derinting) Frequency range 40 - 70 Hz Power factor 2 0.09 Sympas voltage range 40 - 70 Hz Output with range 2 0.09 Sympas voltage range 300 / 400 / 413 Vac Other 5 0.09 Other 5 0.09 Sympas voltage range 300 / 400 / 418 Vac Other 5 0.09 Other 5 0.09 Other 5 0.09 Other 5 0.00 5 0.00 Other 5 0.00 6 0.00 Other 5 0.00 6 0.00 Operation 5 0.00 6 0.00 Operation 5 0.00 6 0.00 Operation 5 0.00 7 0.00 Operation	INPUT				
Wildge range100 - 305 Vac (Invear detailing between 50% and 100% load): 305 - 449 Vac (Inv detailing)Rand Frequency arage5090 Ir L (Laura-sensing)Proven factor0.099Bypess voltage range	Input wiring	Three-phase five-wire (3Φ + N + PE)			
Anted frequency Image in the standard frequency range Gene Total Prever factor 2.0.9 Bypans variage range - 40%15% (settrable) Strain and the standard model in the standa	Rated voltage	380 / 400 / 415 Vac			
frequency angu 40 - 70 H/t Power factor 0.09 Power factor 0.09 Posse valage regine -4%+ 4.19 K (stable) Total hamonic distrition (HDD) 5.5% OUTPU 5.5% Output wing 5.5% (stable) Red volage 268 (FF-0.9) / 220 / 230 / 240 Vac Power factor 268 (FF-0.9) / 220 / 230 / 240 Vac Valage regulation -5% Frequency and 268 (FF-0.9) / 220 / 230 / 240 Vac Waedom -1% Frequency and 268 (FF-0.9) / 220 / 230 / 240 Vac Waedom -1% Frequency and Statubidia Waedom -1% Waedom -1% Statubidia Ja Valage THD -10 Valage THD -10 Corelad 105%-110% for 1 min, 10%-12% for 1 min, 12%-150% for 30 EATTENTS -20 Valas (15 / 2.400 Valas stable) Nomber of battray 16 pcr (16 / 20 stable) Nomber of battray 16 pcr (16 / 20 stable) Recharge time Standard model: 10% ta	Voltage range	190 - 305 Vac (linear derating between 50% and 100% load); 305 - 499 Vac (no derating)			
Power factor $2.0.99$ Bypass voltage range $-40\% + 15\%$ Settable!Total harmonic distortion (FHO) 5% Output 5% Output wing $5m$ Single-phase three-wire (10 + N + PE)Rated voltage range data $200 (PE-0.9) (220 / 20 / 20 / 20 / 20 / 20 / 20 / 20$	Rated frequency	50/60 Hz (auto-sensing)			
Bypes voltage range +40% × +15% (extable) Total Jernoit distortion (HDD) -5% OUTPUT Output wing Single-phase three-wire (10+ N+ PE] Rated voltage 200 (PE-00) / 200 /	Frequency range	40 ~ 70 Hz			
Section Section Control 5% Control Single phase three wire (10 + N + PE) Output wiring Single phase three wire (10 + N + PE) Reder valuage 200 (PE = 09) / 200 /	Power factor	≥ 0.99			
OUTPUT OUTPUT	Bypass voltage range	- 40% ~ +15% (settable)			
Output winingIndexSingle-phase three-wire (10 + N + PE)Rated voltageVoltage regulationFrequency0Single-phase three-wire (10 + N + PE)WaveformMaveformSinusoidalSinusoidalPower factor0Outgae PHDCrest factor10Outgae PHD31Crest factor0Sinusoidal102 × 1% (Inserinanticad): 3% (non-linear lacd): 3% (non-linear l	Total harmonic distortion (THDi)	≤ 5%			
Rated voltage Display CPU 230 / 240 Vac Voltage regulation 1.3% Frequency Synchronizad to byzass in mains moder. 50/00 Hz + 0.1% Hz in battery mode Waveform Synchronizad to byzass in mains moder. 50/00 Hz + 0.1% Hz in battery mode Waveform 1.0 Waveform Sinchronizad to byzass in mains moder. 50/00 Hz + 0.1% Hz in battery mode Waveform 1.0 Voltage THD Sinchronizad to byzas in mains moder. 50/00 Hz + 0.1% Hz in battery mode Overload 1.0 Sinchronizad to byzas in mains moder. 50/00 Hz + 0.1% Hz in battery mode Overload 0.515/00 Hz + 0.1% Hz in battery Sinchronizad to byzas in Hz + 0.0% Hz + 0.1% Hz in battery DC voltage 0.515/00 Hz + 0.0% Hz + 0.1% Hz in battery Sinchronizad to Byzas in Hz + 0.0% Hz	ОЛТРИТ				
Wildge regulation 1% frequency Synchronized to bypass in mains mode, 5000 Hz + 0.1% Hz in battery mode Waveform Sinusidal Wower factor 1.0 Woltage THD Sinus idal Crest factor 3.1 Overlaad 105% - 110% for 10 min, 110% - 125% for 1 min, 126% - 150% for 30s EATTERIES Devlaage ThD 12 V/d c. settable) Number of battery 16 pct (16 - 20 settable) Number of battery 16 pct (16 - 20 settable) Number of battery 12 V/d s. settable, 104 (optional) Recharge time Standard model: 9% capacity restored in 8 hours, long time model: Settable, 104 (optional) Recharge time Standard model: 9% capacity restored in 8 hours, long time model: depend on the capacity of battery SYSTEM Efficiency 2 94% at 100% load, max 95% at 60% load, 2 95% in ECO mode Tarsfer time 0 ms Potections RS232 (standard), USB / R5485 / dy contacts / SMMP / battery temperature compensation (optional) Restrict 2 25% (opticnal), Sing temperature Operating temperature 0 C° - 40°C Strange temperature 0 C° - 40°C Communications RS232 (standard), USB / R5485 / dy contacts / SMMP / battery temperature compensation (optional) Diplay C° - 40°C	Output wiring	Single-phase three-wire $(1\Phi + N + PE)$			
FrequencySynchronized to bypass in mains mode; 50/60 Hz + 0.1% Hz in battery modeWaveform \Box Power factor1.0Sinusoidal1.0Power factor1.0Outsage THD \equiv 1% (innear load); \equiv 3% (innear load);	Rated voltage	208 (PF=0.9) / 220 / 230 / 240 Vac			
WeefformImage: SinusoidalPower factor1.0Wottage THD \cdot 1 % (linear load); 3 % (non-linear load)Creat factor3.1Overload105% - 110% for 10 min, 110% - 125% for 1 min, 126% - 150% for 30sBATTERIESDe voltage1 / 2 Vdc (192 - 240 Vdc settable)Number of battery16 for (s / 0 voltable)De voltage/ 2 / 2 / 2 / 2 / 2 / 2 / 2 / 2 / 2 / 2	Voltage regulation	± 1%			
Power factor I.0 Votage THD ::::::::::::::::::::::::::::::::::::	Frequency	Synchronized to bypass in mains mode; 50/60 Hz + 0.1% Hz in battery mode			
Velage THDImage: Image: Ima	Waveform	Sinusoidal			
Cert factor3:1Overload165% - 110% for 10 min, 110% - 125% for 1 min, 126% - 150% for 30sBATERIESDc valtage192 Vdc (192 - 240 Vdc settable)Number of battery16 pcs (16 - 20 settable)Inbult battery (standard model)12 V/ 9Ah x 16Arraying current12 V/ 9Ah x 16Caraging currentStandard model: 1A; Long time model: 5A (default), 1 - 5A settable; 10A (optional)Recharge timeStandard model: 90% capacity restored in 8 hours; Long time model: depend on the capacity of batterySYSEM100% load, av 95% at 60% load, 2 98% in ECO modeEfficiency94% at 100% load, max. 95% at 60% load, 2 98% in ECO modeTransfer time0Max. number of parallel connections16 pcs (16 - 20 C Mode)Max. number of parallel connections16 pcs (16 - 20 C Mode)Storage temperatureRS232 (standard), USB / R5485 / dry contacts / SNMP/ battery temperature compensation (optional)DisplayLCD + LEDCertRAL0C - 25°C - 55°C (Withou battery)Relative humidity0 - 95% (non-condensing)Altitude2100m, derating 1% for each additional 100 mIrrang21°C - 55°C (Withou battery)Relative humidity0 - 95% (non-condensing)Altitude21°C - 55°C Mithou batteryNoise level at In21°C - 55°C Mithou batteryNoise level at In21°C - 35°C - 55°C Mithou batteryRelative humidity5155191 x495 (ft)Dirensions711x191 x495 (ft)Storage temperature258 dBDirensions711x191 x4	Power factor	1.0			
Overload 10%%-110% for 10 min, 110% - 125% for 1 min, 126% - 150% for 35% BATTERIES DC voltage 192Vdc (192 - 240 Vdc settable) Number of battery 16 pcs (16 - 20 settable) Inbuilt battery (standard model) 12 V / 9Ah x 16 / Charging current Standard model: 90% capacity restored in 8 hours; Long time model: 5A (default), 1 - 5A settable; 10A (optional) Recharge time Standard model: 90% capacity restored in 8 hours; Long time model: 5A (default), 1 - 5A settable; 10A (optional) SYSEM Unitation Intol 100% load, max. 95% at 60% load; 2 98% in ECO mode Max. number of parallel connections Short-christical, overlemperature, Battery low voltage, overvoltage and fa failure Max. number of parallel connections R5232 (standard), USB / F8485 / dry contacts / SNMP/ battery temperature compensation (optional) Display ECC - 40°C Communications 0 -25% - 65% (owthout battery) Getterent -25% - 55% (owthout battery) -25% - 65% (owthout battery) Getterent -25% - 65% (owthout battery) -25% - 55% (owthout battery) Idealize humidity 0 - 95% (non-condensing) -25% - 65% (owthout battery) Altitude -25% - 65% (non-condensing)	Voltage THD	≤ 1% (linear load); ≤ 3% (non-linear load)			
BATTERIES DC voltage 192 Vdc (192 - 240 Vdc settable) Number of battery 16 pcs (16 - 20 settable) Inbuilt battery (standard model) 12 V / 9Ah x 16 / Charging current Standard model: A/ Long time model: SA (default), 1 - 5A settable; 10A (optional) Recharge time Standard model: 90% cospacity restored in 8 hours; Long time model: depend on the capacity of battery SYSTEM Efficiency 2 94% at 100% (load, max. 95% at 60% load, 2 98% in ECO mode! Transfer time 0 ms Protections Short-circuit, overload, overtemperature, battery low voltage, overvoltage, undervoltage and fan failure Max. number of parallel connections 4 Communications R5232 (standard), USB / R5485 / dry contacts / SNMP/ battery temperature compensation (optional) Display LCD + LED Generature Or C - 40°C Storde of C - 40°C	Crest factor	3:1			
DC voltage192 Vdc (192 - 240 Vdc settable)Number of batteryIII<	Overload	105% - 110% for 10 min, 110% - 125% for 1 min, 126% - 150% for 30s			
Number of battery16 pcs (16 - 20 settable)Inbuilt battery (standard model)12 V / 9Ah x 16/12 V / 9Ah x 16//Charging currentStandard model: 90% capacity restored in 8 hours; Long time model: 5A (default), 1 - 5A settable; 10A (optional)Recharge timeStandard model: 90% capacity restored in 8 hours; Long time model: depend on the capacity of batterySYSTEMSYSTEMEfficiencyS 94% at 100% load, max. 95% at 60% load, 2 98% in ECO on sProtectionsShort-circuit, overload, our-temperature, battery low voltage, overvoltage and fan failureMax, number of parallel connectionsShort-circuit, overload, S/ 440 (optional)CommunicationsR5232 (standard), US / K485 / dry contacts / SNMP/ battery temperature at an failureOperating temperatureO°C ~ 40°CStorage temperatureO°C ~ 40°CStorage temperature0 · 95% (non-condensing)Altitude- 25°C ~ 55°C (without battery)Relative humidity0 · 95% (non-condensing)Altitude- 100 m, derating 1% for each additional 100 mIP ratingC1 · 127 · 11x191x495 (S) 350x191x495 (ft)Dimensions (HxWXXD) (mn) (°)S15x191x495 (ft)Packaged dimensions941X310K685 (S)Packaged dimensionsS15x191x495 (H)	BATTERIES				
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Charging currentStandard model: 1A; Long time model: 5A (default), 1 - 5A settable; 10A (optional)Recharge timeStandard model: 90% capacity restored in 8 hours; Long time model: depend on the capacity of batterySYSTEMEfficiency 2.94% at 100% load, max. 95% at 60% load, $\geq 98\%$ in ECO modeTransfer time0 msProtectionsShort-circuit, overload, overtemperature, battery low voltage, overvoltage, undervoltage and fa failureMax. number of parallel connections4CommunicationsRS232 (standard), USB / RS485 / dry contacts / SNMP/ battery temperature compensation (optional)DisplayLCD + LEDGEVERALOperating temperatureO°C ~ 40°CStorage temperatureO°C ~ 40°C <td cols<="" td=""><td>Number of battery</td><td colspan="3"></td></td>	<td>Number of battery</td> <td colspan="3"></td>	Number of battery			
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SYSTEMEfficiency 2 94% at 100% load, max. 95% at 60% load, \geq 98% in ECO modeTransfer time0 msProtectionsShort-circuit, overload, overtemperature, battery low voltage, overvoltage and fan failureMax. number of parallel connections4CommunicationsR5232 (standard), USB / R5485 / dry contacts / SNMP/ battery temperature compensation (optional)Display $LCD + LED$ Operating temperatureOperating temperature0°C ~ 40°CStorage temperature0°C ~ 40°CStorage temperature0° - 55°C (without battery)Relative humidity0 - 95% (non-condensing)Altitude $100 m,$ derating 1% for each additional 100 mIP ratingIP 20Noise level at 1m $515x191x495$ (H)Dimensions $711x191x495$ (S) $350x191x495$ (H)Packaged dimensions941X310X685 (S)618x08ExE02 (4t)	Charging current	Standard model: 1A; Long time model: 5A (default), 1 - 5A settable; 10A (optional)			
Efficiency ≥ 94% at 100% load, max. 95% at 60% load, ≥ 98% in ECO mode Transfer time 0 ms Protections Short-circuit, overload, overload, overload, evervoltage, undervoltage and fan failure Max. number of parallel connections 4 Communications GR5232 (standard), USB / B485 / dry contacts / SNMP/ battery temperature compensation (optional) Display COMENTION GENERAL UCD + LED Operating temperature O°C ~ 40°C Storage temperature O°C ~ 40°C Storage temperature 0 · 55%°C (without battery) Relative humidity 0 · 95% (non-condensing) Altitude · 10 · 0 · 95% (non-condensing) IP rating IP 20 Noise level at 1m IP 20 Dimensions (HXWXD) (mm) (*) S15x191x495 (H) 350x191x495 (H) Packaged dimensions 941X310K685 (S)	Recharge time				
Transfer time0 msProtectionsShort-circuit, overload, overweprature, battery low voltage, overvoltage, undervoltage and fan failureMax. number of parallel connections 4 CommunicationsRS232 (standard), USB / RS485 / dry contacts / SNMP/ battery temperature compensation (optional)Display $- LCD + LED$ GENERALOperating temperature $0^{\circ}C \sim 40^{\circ}C$ Storage temperature $0^{\circ}C \sim 40^{\circ}C$ Storage temperature $0^{\circ}C \sim 40^{\circ}C$ Altitude $-25^{\circ}C \sim 55^{\circ}C$ (without battery)Relative humidity $0 \cdot 955\%$ (non-condensing)Altitude 100 m , derating 1% for each additional 100 mIP rating $102 \cdots S5^{\circ}B$ BDimensions $711x191x495$ (S) $350x191x495$ (H)Packaged dimensions $941X310X685$ (S)Chrosenson $612 \cdot 285 \times 682$ (H)					
ProtectionsShort-circuit, overload, overload per altery low voltage, undervoltage and fan failureMax. number of parallel connections 4 CommunicationsRS232 (standard), USB / RS485 / dry contacts / SNMP/ battery temperature compensation (optional)Display $- CC + LED$ Operating temperatureOperating temperature $0^{\circ}C \sim 40^{\circ}C$ Storage temperature $0^{\circ}C \sim 40^{\circ}C$ Relative humidity $-25^{\circ}C \sim 55^{\circ}C$ (without battery)Relative humidity -95% (non-condensing)Altitude -0.95% (non-condensing)Noise level at 1m $-1000 m$, derating 1% for each additional 100 mDimensions (HxWxD) (mm) (*) $7111191x495$ (S) $350x191x495$ (H)Packaged dimensions $941X310X685$ (S)Packaged dimensions $941X310X685$ (S)Commonities $618\times085\times612$ (LM)	Efficiency	≥ 94% at 100% load, max. 95% at 60% load, ≥ 98% in ECO mode			
Max. number of parallel connections4CommunicationsRS232 (standard), USB / RS485 / dry contacts / SNMP/ battery temperature compensation (optional)DisplayLCD + LEDGENERALOperating temperature $0^{\circ}C \sim 40^{\circ}C$ Storage temperature $0^{\circ}C \sim 40^{\circ}C$ Storage temperature $0^{\circ}C \sim 55^{\circ}C$ (without battery)Relative humidity $0 - 95\%$ (non-condensing)Altitude $0 - 95\%$ (non-condensing)AltitudeIP ratingIP ratingIP 20Noise level at 1m $515x191x495$ (H)Dimensions (HxWxD) (mm) (*) $711x191x495$ (S) $350x191x495$ (H)Packaged dimensions $941X310X685$ (S)Storage temperators $618x298xx692$ (U)	Transfer time	0 ms			
CommunicationsRS232 (standard), USB / RS485 / dry contacts / SNMP / battery temperature compensation (optional)DisplayLCD + LEDGENERALOperating temperature0°C ~ 40°CStorage temperature0°C ~ 55°C (without battery)Relative humidity0 - 95% (non-condensing)Altitude< 1000 m, derating 1% for each additional 100 m	Protections	Short-circuit, overload, overtemperature, battery low voltage, overvoltage, undervoltage and fan failure			
Display LCD + LED GENERAL Operating temperature 0°C ~ 40°C Storage temperature 0°C ~ 55°C (without battery) Relative humidity 0 - 95% (non-condensing) Altitude ≤ 1000 m, derating 1% for each additional 100 m IP rating IP 20 Noise level at 1m ≤ 58 dB Dimensions (HXWXD) (mm) (*) 711x191x495 (S) 350x191x495 (H) 5115x191x495 (H) Packaged dimensions 941X310X685 (S) 618x285x502 (H)	Max. number of parallel connections	4			
GENERAL Operating temperature 0°C ~ 40°C Storage temperature -25°C ~ 55°C (without battery) Relative humidity 0 - 95% (non-condensing) Altitude ≤ 1000 m, derating 1% for each additional 100 m IP rating IP 20 Noise level at 1m ≤ 58 dB Dimensions (HxWxD) (mm) (*) 711x191x495 (S) 350x191x495 (H) 515x191x495 (H) Packaged dimensions 941X310X685 (S) £18x285x502 (H)	Communications	RS232 (standard), USB / RS485 / dry contacts / SNMP/ battery temperature compensation (optional)			
Operating temperature $0^{\circ}C \sim 40^{\circ}C$ Storage temperature $-25^{\circ}C \sim 55^{\circ}C$ (without battery)Relative humidity $0 - 95\%$ (non-condensing)Altitude $0 - 95\%$ (non-condensing)IP rating $0 - 95\%$ (non-condensing 1% for each additional 100 mIP ratingIP 20Noise level at 1m $\leq 58 \text{ dB}$ Dimensions (HxWxD) (mm) (*) $711 \times 191 \times 495$ (S) $350 \times 191 \times 495$ (H)Packaged dimensions $941 \times 100 \times 65$ (S)Figure 20 (H) $618 \times 295 \times 503$ (H)	Display	LCD + LED			
Storage temperature -25°C ~ 55°C (without battery) Relative humidity 0 - 95% (non-condensing) Altitude ≤ 1000 m, derating 1% for each additional 100 m IP rating IP 20 Noise level at 1m ≤ 58 dB Dimensions (HxWxD) (mm) (*) 711x191x495 (S) 350x191x495 (H) Packaged dimensions 941X310X685 (S)	GENERAL				
Relative humidity 0 - 95% (non-condensing) Altitude < 1000 m, derating 1% for each additional 100 m	Operating temperature	0°C ~ 40°C			
Altitude ≤ 1000 m, derating 1% for each additional 100 m IP rating IP 20 Noise level at 1m ≤ 58 dB Dimensions (HxWxD) (mm) (*) 711x191x495 (S) 350x191x495 (H) Packaged dimensions 941X310X685 (S)	Storage temperature	-25°C ~ 55°C (without battery)			
IP rating IP 20 Noise level at 1m ≤ 58 dB Dimensions (HxWxD) (mm) (*) 711x191x495 (S) 350x191x495 (H) Packaged dimensions 941X310X685 (S)	Relative humidity	0 - 95% (non-condensing)			
Noise level at 1m ≤ 58 dB Dimensions (HxWxD) (mm) (*) 711x191x495 (S) 350x191x495 (H) 515x191x495 (H) Packaged dimensions 941X310X685 (S) 618×285×503 (H)	Altitude	≤ 1000 m, derating 1% for each additional 100 m			
Dimensions (HxWxD) (mm) (*) 711x191x495 (S) 350x191x495 (H) 515x191x495 (H) Packaged dimensions 941X310X685 (S) 618x295x503 (H)	IP rating	IP 20			
(HxWxD) (mm) (*) 350x191x495 (H) 515x191x495 (H) Packaged dimensions 941X310X685 (S) 618x295x502 (L)	Noise level at 1m	≤ 58 dB			
			515x191x495 (H)		
			618x285	x593 (H)	
Net weight (kg) (*) 18.5 (H), 64 (S) 26.5 (H)	Net weight (kg) (*)	18.5 (H), 64 (S)	26.5 (H)		
Gross weight (kg) (*) 20 (H), 72 (S) 28 (H)	Gross weight (kg) (*)	20 (H), 72 (S)	28	(H)	
(*) S means standard model; H means long time model.					

