



Ecma/TC38-TG3/2015/026 (Rev. 1 – 15 April 2015)

Annex B2 - Product environmental attributes Notebooks and Tablets

The declaration may be published only when all rows and/or fields marked with * are filled-in (n.a. for not applicable). Additional information regarding each item may be found under P15.

Brand *	Lenovo	Logo				
Company name *	Lenovo					
Contact information *	Lenovo Global Environmental Affairs		Lenovo			
e-mail address	Alvin L Carter		LCIIOVO			
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Additional information	ion The latest version of this document can be found at:					
	http://www.lenovo.com/ecodeclaration					

The company declares (based on product specification or test results based obtained from sample testing), that the product						
conforms to the statemen	conforms to the statements given in this declaration.					
Type of product *	Notebook					
Commercial name *	ThinkPad L590					
Model number *	20Q7, 20Q8					
Issue date *	2019/4/9					
Intended market *	Global Europe Asia, Pacific & Japan Americas Other					
Additional information						

This is an uncontrolled copy when in printed form. Please refer to the contact information for the latest version.

About Annex B2

Annex B2 reflects Product environmental attributes relevant for Computers and Computer Monitors. The following items from the ECMA-370 Main body are not shown in the template:

P4.1 – P4.3 Consumable materials

P9.1 TEC and Print speed

P10.2 - P10.3 Chemical emissions from printing products

P11.1 - P11.3 Consumable materials for printing products.

Model nu	ımber *	20Q7, 20Q8 Logo	Lan		
Issue dat	te *	2019/4/9	Len	OVO	O _{TM}
Product	environ	mental attributes - Legal requirements	Require	men	t met
Item			Yes	No	n.a.
P1	Hazardo	ous substances and preparations			
P1.1*	Products	s do comply with current European RoHS Directive. (See legal reference and NOTE B1)	\boxtimes		
P1.2*		s do not contain Asbestos (see legal reference). nt: Legal reference has no maximum concentration value.			
P1.3*	Products do not contain Ozone Depleting Substances: Chlorofluorocarbons (CFC), hydrobromofluorocarbons (HBFC), hydrochlorofluorcarbons (HCFC), Halons, carbontetrachloride, 1,1,1-trichloroethane, methyl bromide (see legal reference). Comment: Legal reference has no maximum concentration values.				
P1.4*	Products do not contain more than; 0,005% polychlorinated biphenyl (PCB), 0,005% polychlorinated terphenyl (PCT) in preparations (see legal reference).				
P1.5*		s do not contain more than 0,1% short chain chloroparaffins (SCCP) with 10-13 carbon atoms in the ntaining at least 48% per mass of chlorine in the SCCP (see legal reference).	e 🔀		
P1.6*	(see leg	th direct and prolonged skin contact do not release nickel in concentrations above 0,5 μg/cm²/weel al reference). nt: Max limit in legal reference when tested according to EN1811:2011-5.	k 🔀		
P1.7*	REACH	Article 33 information about substances in articles is available at (add URL or mail contact): www.lenovo.com/social_responsibility/us/en/environment.html	\boxtimes		
P2	Batterie	S			
P2.1*		oduct contains a battery or an accumulator, the battery/accumulator is labeled with the disposal Information on proper disposal is provided in user manual. (See legal reference)			
P2.2*	Batteries referenc	s or accumulators do not contain more than 0,0005% of mercury or 0,002% of cadmium. (See lega e)	ıl 🔀		
P2.3*	Batteries	s and accumulators are readily removable. (See legal reference)	\boxtimes		
P3	Conform	nity verification & Eco design (ErP)			
P3.1*	The Dec	duct is CE-marked to show conformance with applicable legal requirements (see legal reference). claration of Conformity can be requested at (add link or e-mail address): www.lenovo.com/us/en/compliance/eu-doc			
P3.2*		duct complies with the Eco design requirements for energy-related products, al reference).			
	-	d information is;			
P5		t packaging			
P5.1*	hexavale	ng and packaging components do not contain more than 0,01% lead, mercury, cadmium ar ent chromium by weight of these together.			
P5.2*	used (se	kaging materials are marked with abbreviations and numbers indicating the nature of the material(see legal reference).	,		
P5.3*	(see leg	duct packaging material is free from ozone depleting substances as specified in the Montreal Protoc al reference). nt: Legal reference has no maximum concentration values.	ol 🔀		
P6		nt information			
P6.1*	Informati	ion for recyclers/treatment facilities is available (see legal reference).	\boxtimes		

NOTE B1 Restriction applies to the homogeneous material, unless other specified and expressed in weight %. Stating "Yes" means that the product is compliant with the mandatory requirements.

Model number *	20Q7, 20Q8	Logo	Lanova
Issue date *	2019/4/9		LEI IOVO"

Product	t environmental attributes - Market requirements (See General NOTE GN below)			
It a see		Require		
Item P7	*=mandatory to fill in. Additional information regarding each item may be found under P14. Design	Yes	No	n.a.
Ε1	Disassembly, recycling			
P7.1*	Parts that have to be treated separately are easily separable	\boxtimes		
P7.2*	Plastic materials in covers/housing have no surface coating.		\boxtimes	
P7.3*	Plastic parts > 100 g consist of one material or of easily separable materials.	\boxtimes		
P7.4*	Plastic parts > 25 g have material codes according to ISO 11469 referring ISO 1043-4.	\boxtimes		
P7.5	Plastic parts are free from metal inlays or have inlays that can be removed with commonly available tools.	\boxtimes		
P7.6*	Labels are easily separable. (This requirement does not apply to safety/regulatory labels).	\boxtimes		
	Product lifetime			
P7.7*	Upgrading can be done e.g. with processor, memory, cards or drives			
P7.8*	Upgrading can be done using commonly available tools	\boxtimes		
P7.9	Spare parts are available after end of production for: 5 years			
P7.10	Service is available after end of production for: 5 years			
	Material and substance requirements			
P7.11*	Product cover/housing material type (e.g. plastics, metal, aluminum): Material type: PA+GF55% Material type: PC+ABS w/15% talc Material type: PC			
P7.12	Insulation materials of external electrical cables are PVC free.		\boxtimes	
P7.13	Insulation materials of internal electrical cables are PVC free.	\boxtimes		
P7.14	External plastic casing/cover parts > 25 g contain no more than 0,1% weight (1000 ppm) bromine and 0,1% weight (1000 ppm) chlorine attributable to brominated flame retardants, chlorinated flame retardants, and polyvinyl chloride or 0,3% weight (3000 ppm) bromine and 0,3% weight (3000 ppm) chlorine in parts containing more than 25% post-consumer recycled content.			
P7.15	Printed circuit boards, PCBs (without components) are low halogen: all PCBs > 25 g are low halogen as defined in IEC 61249-2-21. (See 1NOTE B2)			
P7.16	Flame retarded plastic parts > 25 g in covers / housings are marked according ISO 1043-4: Marking: FR(40)			
P7.17	Alt. 1: Chemical specifications of flame retardants in printed circuit boards > 25 g (without components): TBBPA (additive), TBBPA (reactive) (See NOTE B3), Other: 9,10-Dihydro-9-oxa-10-phosphaphenanthrene-10-oxide, CAS #: 35948-25-5			
	Alt. 2: Chemical specifications of flame retardants in printed circuit boards (without components) > 25 g according ISO 1043-4:			
P7.18	Alt. 1: Flame retarded plastic parts > 25 g contain the following flame retardant substances/preparations in concentrations above 0,1%: 1. Chemical name: halogen-free organic phosphorus compound, CAS #: confidential (See NOTE B4) 2. Chemical name: , CAS #: " 3. Chemical name: , CAS #: "	\square		
	Alt. 2: Chemical specifications of flame retardants in plastic parts > 25 g according ISO 1043-4:			
P7.19	In plastic parts > 25 g, flame retardant substances/preparations above 0,1% are used which have been assigned the following Risk phrases; R36 , R38 and Hazard statements: H319 ; H315 (TORAY_C3452S) (TEIJIN_GXV-3540UI) The source(s) for these classifications is/are found at (add URL(s)): , (See note B5)			
P7.20*	Postconsumer recycled plastic material content is used in the product (See Note B6):	X		
	If YES; at least one of the two alternatives below shall be answered; a) Of total plastic parts' weight > 25 g, the postconsumer recycled plastic material content (calculated as a percentage of total plastic by weight) is 2.0%. or b) The weight of recycled material is 19.4 g.			

GENERAL NOTE Standard references should direct to the latest version of a standard. If an older version of a standard is used, section P15 shall be used for explanation.

NOTE B2 IEC 61249-2-21 defines maximum limits of 900 ppm for each of the substances chlorine and bromine and a maximum limit of 1500ppm of these substances combined. The standard does not address fluorine, iodine and astatine which are included in the group of halogens.

NOTE B3 and B4 A Guidance document on Chemical substances is available; see http://www.ecma-international.org/publications/standards/Ecma-370.htm

NOTE B5 If a certain substance has been assigned a certain risk phrases / hazard statement in the referenced source, this does not necessarily mean the substance has been tested for all of the hazards referred to by a certain customer.

NOTE B6 Applies to a product containing plastic parts whose combined weight exceeds 100 g with the exception of printed circuit boards, cables, connectors and electronic components and bio-based plastic material.

Model number *	20Q7, 20Q8	Logo	Lanava
Issue date *	2019/4/9		Lei IOVO.

Product environmental attributes - Market requirements (continued)	Requi	remer	t met
Item	Yes	No	n.a.

		stance requirements						
P7.21*	Biobased plastic material content is used in the product (See NOTE B7):							
	,	ne of the two alternative tic parts' weight > 25 g, by weight) is %.		•	ted as a percentage of			
		of the biobased plastic r	material is g.					
P7.22*		free from mercury, i.e.						
P8	Batteries	I specify: Number of lar	nps: and maxim	um mercury content pe	r lamp: mg			
P8.1*		composition: Li-ion				$\overline{}$		
P9	<u> </u>	otion (See NOTE B8)						
P9.1		ne following power level	s or energy consumption	ons are reported:				
Energy mo	de *	Power level at 100 V AC	Power level at 115 V AC	Power level at 230 V AC	Reference/Standard for energy modes and test method *			
Peak (On-	max)	65 W	65 W	65 W	Full load			
Categor	<u>y -1-</u>							
Short Idle Enabled	State - WOL	8.21 W	8.2 W	8.34 W	Use for ENERGY STAR V7.1 registration (P _{idle})			
Long Idle Enabled	State - WOL	5.74 W	5.71 W	5.79 W	Use for ENERGY STAR V7.1 registration (P _{idle})			
Sleep (S3)	- WOL Enabled	1.42 W	1.37 W	1.52 W	Use for ENERGY STAR V7.1 registration (P _{sleep})			
Off (S5) - I	S5) - WOL Enabled 0.44 W 0.44 W Use for ENERGY STAR V7. registration (P _{off})		Use for ENERGY STAR V7.1 registration (Poff)					
EPS No-loa		0.095 W	0.096 W	0.117 W				
	supply / charger plugged in the connected from the product.)	1						
PTEC *	ti	3.82W	3.79 W	3.91 W				
ETEC *	ergy Consumption ergy Consumption	31.92 kWh/year	31.72 kWh/year	32.66 kWh/year	E _{TEC} = (8760/1000) x (P _{off} x 0.25 + P _{sleep} x 0.45 + P _{long_idle} x 0.05+ P _{short_idle} x 0.25)			
					ed; Pidle: Idle State - WOL Enabled			
		ncy Level (International	I Efficiency Marking Pro	otocol) * : VI				
Display res	solution * : 2.07 me	gapixels			1920*1080			
Default tim	e to enter energy s	ave mode: 10 minutes						
P9.2*	Information about	the energy save functi	on is provided with the	product.				
P9.3	Energy efficiency	class (monitors only):						
P10	Emissions							
D40.4	Noise emission – Declared according to ISO 9296 (See NOTE B9)							
P10.1		Mode description		- ''	t A-weighted sound power level, $L_{WA,c}$ (B	3)		
	Idle Operation	* HDD idle * Operating (HDD)		* 2.7 * NA		 		
	· .	* Operating (CPU)		* 3.9	l l			
	Other mode	Declared A-weighted soun	d pressure level (dB) L_{nAm}	19 (operator posi	tion desktop – idle)			
		Declared A-weighted soun		NA (operator pos	ition desktop – operatingHDD) tion desktop – operatingCPU)			
	Measured according to: SO 7779 ECMA-74							

NOTE B7 The following is to be excluded from the calculation of percentage: printed circuit boards, labels, cables, connectors and electronic components and postconsumer recycled plastic

NOTE B8 A Guidance document on Energy Efficiency is available; see http://www.ecma-international.org/publications/standards/Ecma-370.htm

NOTE B9 A Guidance document on Acoustic Noise is available; see http://www.ecma-international.org/publications/standards/Ecma-370.htm

Model number *	20Q7, 20Q8	Logo	Lonovo
Issue date *	2019/4/9		LEI IOVO"

Product	Product environmental attributes - Market requirements (continued)			
met				
Item		Yes	No	n.a.
	Electromagnetic emissions			
P10.4	Computer display meets the requirement for low frequency electromagnetic fields of the following voluntary program(s): MPR-II(3 pin AC adapter only)			
P12	Ergonomics for computing products			
P12.1*	The display meets the ergonomic requirements of ISO 9241-307 for visual display technologies.	\boxtimes		
P12.2*	The physical input device meets the requirements of ISO 9995 and ISO 9241-410.	\boxtimes		
P13	Packaging and documentation			
P13.1*	Product packaging material type(s): P-CUSHION weight (kg): 0.113 Product packaging material type(s): SCREEN FILM weight (kg): 0.00415 Product packaging material type(s): LDPE weight (kg): 0.105 Product packaging material type(s): Carton weight (kg): 0.373 Product packaging material type(s): Paper pad weight (kg): 0.037			
P13.2*	Product plastic primary packaging is free from PVC.	\boxtimes		
P13.3*	For product primary corrugated fiberboard packaging, specify the contained percentage of minimum post-consumer recovered fiber content: 70 %			
P13.4*	Specify media for user and product documentation (tick box): Electronic, Paper, Other			
P13.5	(Please only complete this item if paper documentation used) User and product documentation on paper media is chlorine-free: If Yes, please specify:			
	Totally chlorine-free			
	Elemental chlorine-free Processed chlorine-free			
P14	Voluntary programs			
P14.1	The product meets the requirements of the following voluntary program(s):			
	ENERGY STAR® Criteria version: 7.1 Date: 2019/4/23 Product category: 1 Eco-label: EPEAT Criteria version: 1680.1 Date: 2019/6/5 Product category: Notebook 8.0 Date: PCGL Criteria version: V13 Date: 2019/6/5 Product category: Notebook 8.0 Product category: Notebook 8.0 Date: 2019/6/5 Product category: Notebook 8.0 Product category: Notebook 8.0 Date: 2019/6/5 Product category: Notebook 8.0 Product category: Notebook 8.0 Date: 2019/6/5 Product category: Notebook 8.0 Product category: Notebook 8.0 Date: 2019/6/5 Product category: Notebook 8.0 Product category: Notebook 8.0 Date: 2019/6/5 Product category: Notebook 8	ook		
P15	Additional information (See NOTE B10)			
P9	Energy consumption of specific configuration may vary; description of the tested product configurat	ion:		
	NOTE: Supplier makes no representations, guarantees, assurances or warranties whether express or implied information contained in this document. All information provided by supplier in this document is provided base knowledge available at the time of completion, and supplier shall have no obligation to update such information provided here is approximate and provided for informational purposes only. See a Lenovo Account Represer information.	ed on su on. The	pplier' inform	s ation
P9	See Energy Star Qualified Notebooks & Tablet Computers for the latest information:			
	http://www.energystar.gov/index.cfm?fuseaction=find_a_product.showProductGroup&pgw_code=CO			

NOTE B10 Additional lines may be inserted to declare further items, by positioning the cursor at the far right of the row and hitting the <Enter> key.

Legal references Europe Annex B2

Reference	Declaration item
Directive 2011/65/EU (RoHS Directive) * * Specific exemptions apply for certain products and applications.	P1.1
Regulation (EC) 1907/2006(REACH, Annex XVII	P1.2, P1.4, P1.6, P1.7
Regulation (EC) 2037/2000, 2038/2000, 2039/2000 (Marketing and use of Ozone layer depleting substances)	P1.3, P5.3
Norwegian regulation relating to restrictions on the use of certain dangerous chemicals 20.12.2002	P1.5
Directive 2013/56/EC (Battery and accumulators Directive) * * These provisions shall not apply where, for safety, performance, medical or data integrity reasons, continuity of power supply is necessary and requires a permanent connection between the appliance and the battery or accumulator.	P2.1, P2.2, P2,3, P8.1
Directive 2006/95/EC (Low Voltage Directive)	P3.1
Directive 2004/108/EC (EMC Directive)	P3.1
Directive 1999/5/EC (R&TTE Directive)	P3.1
Regulation (EC) 801/2013 amending Regulation (EC) No 1275/2008 with regard to ecodesign requirements for standby, off mode electric power consumption of electrical and electronic household and office equipment, and amending Regulation (EC) No 642/2009 with regard to ecodesign requirements for televisions	P3.1, P3.2
Regulation (EC) No 1272/2008 (CLP Regulation)	P7.19
Directive 2004/12/EC (Packaging Directive)	P5.1
Decision 97/129/EC (Secondary packaging legislation)	P5.2
Directive 2012/19/EU (WEEE directive)	P6.1

Lenovo ErP Lot3 Information Sheet - PC / Notebook -

As required by COMMISSION REGULATION (EU) No 617/2013 of 26 June 2013 implementing Directive 2009/125/EC of the European Parliament and of the Council with regard to ecodesign requirements for computers and computer servers (ErP Lot3).

Products scope of this sheet:

Desktop computer, integrated desktop computer, and notebook computer

This document is only valid in connection with the IT Eco Declaration of the specific Product.

Commercial name	ThinkPad L590	Logo	
Model Number	20Q7, 20Q8		Lonovo
Issue Date	2019/4/9		Lenovo.
Additional information			

(d)	year of manufacture:				2019		
e)	Etec value (kWh) per ErP Lot 3 Category and capability adjustments applied when all discrete graphics cards (dGfx) are disabled and if the system is tested with switchable graphics mode with UMA driving the display.						
f)	Etec value (kWh) per ErP Lot 3 Category and capability adjustments applied when all discrete graphics cards (dGfx) are enable						
		Category A (according to ErP Lot 3)	Category B (according to ErP Lot 3)	Category C (according to ErP Lot 3)	Category D (according to ErP Lot 3)		
	Memory over base [GB]	64	64	(,	,		
ents ting	Additional internal storage	YES (Yes / No)	YES (Yes / No)	(Yes / No)	(Yes / No)		
capability adjustments applied during testing	Discrete television tuner	NO (Yes / No)	NO (Yes / No)	(Yes / No)	(Yes / No)		
bility a	Discrete Audio Card	NO (Yes / No)	NO (Yes / No)	(Yes / No)	(Yes / No)		
capa appli	Discrete graphics Card(s) [number / #]	NO #: (Yes / No)	YES #: 1 (Yes / No)	#: (Yes / No)	#: (Yes / No)		
	Category of discrete graphics Card(s)	NA	G3				
esults	Etec Value (kWh) - dGfx disabled all discrete graphics cards (dGfx) are disabled/ UMA is active for switchable graphics/ product has no graphics cards (dGfx)	19.31					
Test results	Etec Value (kWh) - dGfx enabled all discrete graphics cards (dGfx) are enabled		19.11				
g)	Idle state power demand (Watts); Cat.A: 5.99 / Cat.B: 5.9						
h)	Sleep mode power demand (Watts); Cat.A: 1.29 / Cat.B: 1.2						
i)	Sleep mode with WOL enabled power demand (Watts) (where enabled); Cat.A: 1.31 / Cat.B:						
j)	Off mode power demand (Watts); Cat.A: 0.46 / Cat.B: 0						
k)	Off mode with WOL enabled power demand (Watts) (where enabled); Cat.A: 0.46 / Cat.B: 0.4						
l)	Internal power supply efficiency at 10 %, 20 %, 50 % and 100 % of rated output power (if applicable):						
	10% 20% 50%	100% Aver	age				
m)	external power supply efficiency (if applicable)*:						
	Average active efficiency: 65W: 89.41%,88.62%,88.96%						
	*internal note: show values for all available external power supplies						
o)	Minimum number of loading cycles that the batteries can withstand (applies only to notebook computers): 500 cycles						
p-1)	Measurement methodology used to determine information mentioned in points (I) – internal PSU efficiency: NA						
p-2)	Measurement methodology used to determine information mentioned in points (m) – external PSU efficiency: EN 50563:2011 measurement methodology						

(p-3)	o-3) Measurement methodology used to determine information mentioned in points (o) – loading cycles batteries: EN 61960 measurement methodology							
(p-4)	Measurement methodology used to determine information mentioned in maximum, idle, sleep, off mode power as defined in Point P9.1 in the Product IT Eco Declaration: EN 62623:2013 measurement methodology							
(q)	Sequence of steps for achieving a stable condition with respect to power demand: EN 62623:2013 measurement methodology							
(r)	Description of how sleep and/or off mode was selected or programmed: By selecting sleep and/or off mode thru Windows operating system							
(s)	Sequence of events required to reach the mode where the equipment automatically changes to sleep and/or off mode: **Automatically changes to sleep after 30 minutes**							
(t)								
(u)	condition which does not exceed the applicable power demand requirements for sleep mode (in minutes): Length of time after a period of user inactivity in which the computer automatically reaches a power							
(-)	mode that has a lower power demand requirement than sleep mode (in minutes):							
(v)	Length of time before the display sleep mode is set to activate after user inactivity (in minutes):							
(w) Information on the energy-saving potential of power management functionality: **User information described in User Guide and Power Manager under ThinkVantage menu in all programs**								
(x) user information on how to enable the power management functionality: **User information described in User Guide and Power Manager under ThinkVantage menu in all programs **programs**								
(z)	(z) test parameters for measurements: — test voltage in V and frequency in Hz, — total harmonic distortion of the electricity supply system, — information and documentation on the instrumentation, set-up and circuits used for electrical testing: 230V/50HZ; Total Harmonic Distortion <2 %							
Addition Notebook Battery Information:								
		Battery[ies] not user replaceable	Battery[ies] user replaceable	n/a				
		The battery[ies] in this product cannot be easily replaced by users themselves. 1)						
Internal/built-in Battery								
External/detachable Battery								
Bios Backup Battery								
Other:								
Additional information								
١								

1)
The battery[ies] in this product cannot be easily replaced by users themselves.
Акумулаторната[ите] батерия[и] в този продукт не може да се замени[ят] лесно от самите потребители.
Las baterías de este producto no pueden ser sustituidas fácilmente por los propios usuarios.
Výměnu baterie/baterií v tomto výrobku by neměli provádět sami uživatelé.

Brugeren kan ikke uden videre udskifte batteriet/batterierne i dette produkt.

Der Akku/die Akkus dieses Produkts kann/können nicht ohne weiteres vom Benutzer selbst ausgetauscht werden.

Kasutajad ei saa selle toote akut/akusid ise hõlpsasti asendada.

Η μπαταρία[-ες] στο προϊόν αυτό δεν μπορούν να αντικατασταθούν εύκολα από τους ίδιους τους χρήστες La/les batterie(s présente(s) dans ce produit ne peuvent être facilement remplacée(s) par les utilisateurs eux-mêmes.

Korisnik ne može lako zamijeniti Bateriju sam u ovom proizvodu.

La batteria/le batterie in questo prodotto non può/possono essere facilmente sostituita/e dall'utente. Lietotāji paši nevar nomainīt šā ražojuma akumulatoru(-us).

Šio gaminio baterijos [baterijų] pats vartotojas negali lengvai pakeisti.

A termék akkumulátorait a felhasználó nem tudja egyedül egyszerűen kicserélni. Il-batterija/batteriji f'dan il-prodott ma tistax/jistgħux tigi/jigu sostitwita/i mill-utenti stess. Batteriet [ene] i dette produktet kan ikke lett erstattes av brukerne selv.

De batterij(en) in dit product is (zijn) door de gebruiker niet gemakkelijk vervangbaar. Użytkownik nie może sam w łatwy sposób wymienić baterii w tym produkcie. A ou as baterias deste produto não podem ser facilmente substituídas pelos próprios utilizadores.

Bateria (bateriile) din acest produs nu poate (pot) fi uşor înlocuită (înlocuite) de utilizatorii înşişi. Batériu(-ie) v tomto výrobku nemôže vymieňať používateľ. Baterij/baterije v tem izdelku uporabniki sami ne morejo zlahka zamenjati.

Tämän tuotteen akku [akut] ei[vät] ole helposti käyttäjän vaihdettavissa. Det är inte enkelt för kunden att själv byta ut batteriet/batterierna. Bu üründeki batarya(lar) kullanıcılar tarafından kolaylıkla değiştirilemez.