

MAXIMUM PERMISSIBLE EXPOSURE

KDB 447498 D01 Mobile and Portable Devices RF Exposure Procedures and Equipment Authorization Policies v06.

According to FCC 1.1310: The criteria listed in the following table shall be used to evaluate the environment impact of human exposure to radio frequency(RF) Radiation as specified in §1.1307(b)

EUT Specification

FCC ID	2AOKB-A1780P
EUT Anbor	Anker SOLIX F2000 Portable Power Station
Frequency band (Operating)	⊠ BT: 2.402GHz ~ 2.480GH
Anbotek Anbotek	⊠ WLAN: 2.412GHz ~ 2.462GHz
Anbor K Anbo	☐ RLAN: 5.180GHz ~ 5.240GHz
Anboten Anb	☐ RLAN: 5.260GHz ~ 5.320GHz
ek obotek Anbo. k	☐ RLAN: 5.500GHz ~ 5.700GHz
ak hotek Anbote	☐ RLAN: 5.745GHz ~ 5.825GHz
poter And stek anbotek	☐ Others:
Device category	☐ Portable (<20cm separation)
botek Anbote Ant	⊠ Mobile (>20cm separation)
And otek Anbotek Anbo	Others
Exposure classification	☐ Occupational/Controlled exposure
ek Aupor K Wir Josek	⊠ General Population/Uncontrolled exposure
Antenna diversity	⊠ Single antenna
tek obotek Anbo	☐ Multiple antennas
Anbor ok Ar hotek Anborer	☐ Tx diversity
Anbote, And stek shoot	☐ Rx diversity
Anbotek Anbo	☐ Tx/Rx diversity
Antenna gain (Max)	3.27dBi
Evaluation applied	⊠ MPE Evaluation
otek Anbo tek botek	☐ SAR Evaluation

Hotline



Limits for Maximum Permissible Exposure(MPE)

	100				
Frequency	Electric Field	Magnetic Field	Power	Average Time	
Range(MHz)	Strength(V/m)	Strength(A/m)	Density(mW/cm ²)	Air anbot	
k Aupoter b	(A) Limits fo	r Occupational/Contr	ol Exposures	And rek	
300-1500	Vupo,	lek Alipote.	F/300	6	
1500-100000	Anbore And	tek -nbotek	Anbo 5	10k A6 016	
inpose Aug Otek	(B) Limits for Ge	neral Population/Und	control Exposures	otek Anbotek	
300-1500	ek -botek	Anbore - An	F/1500	30	
1500-100000	bre. Diek	Anboren Anbo	1 botek	30	

Friis transmission formula: Pd=(Pout*G)\(4*pi*R2)

Where

Pd= Power density in mW/cm²

Pout=output power to antenna in Mw

G= gain of antenna in linear scale

Pi=3.1416

R= distance between observation point and center of the radiator in cm

Pd the limit of MPE. If we know the maximum gain of the antenna and total power input to the antenna, through the calculation, we will know the distance where the MPE limit is reached.

Measurement Result

Operating Mode	Maximum output power (dBm)	Tune toleran	ice	Max. Tune up Power (dBm)	Antenna Gain (dBi)	Power density at 20cm (mW/cm²)	Power density Limits (mW/cm²)
BLE Anbor	2.33	2.33	±1	3.33 March 201	3.27	0.0009	inboter 1 A
WLAN	21.52	21.52	±1	22.52	3.27	0.0755	Anbo'th

Note: BLE and 2.4G WIFI cannot support simultaneous transmission.

