EPEVER
EPSOLAR TECHNOLOGY

Technical Parameters

Item	XTRA 1206N	XTRA 2206N	XTRA 1210N	XTRA 2210N	XTRA 3210N	XTRA 4210N	XTRA 3215N	XTRA 4215N	XTRA 3415N	XTRA 4415N
System nominal voltage	12/24VDC① Auto								12/24/36/48VDC① Auto	
Rated charge current	10A	20A	10A	20A	30A	40A	30A	40A	30A	40A
Rated discharge current	10A	20A	10A	20A	30A	40A	30A	40A	30A	40A
Battery voltage range	8~32V								8~68V	
Max. PV open circuit voltage	60V② 46V③		100V② 92V③				150V② 138V③			
MPP voltage range	(Battery voltage +2V)~36V		(Battery voltage +2V)~72V				(Battery voltage +2V)~108V			
Max. PV input power	130W/12V 260W/24V	260W/12V 520W/24V	130W/12V 260W/24V	260W/12V 520W/24V	390W/12V 780W/24V	520W/12V 1040W/24V	390W/12V 780W/24V	520W/12V 1040W/24V	390W/12V 780W/24V 1170W/36V 1560W/48V	520W/12V 1040W/24V 1560W/36V 2080W/48V
Self-consumption	≤14mA(12V) ≤15mA(24V)		≤35mA(12V) ≤22mA(24V)						≤35mA(12V) ≤22mA(24V)	≤16mA(36V) ≤16mA(48V)
Discharge circuit voltage drop	≤0.23V									
Temperature compensate coefficient④	-3mV/℃/2V (Default)									
Grounding	Common negative									
RS485 interface	5VDC/200mA(RJ45)									
LCD backlight time	60S (Default)									

①When a lithium battery is used, the system voltage can't be identified automatically
②At minimum operating environment temperature
③At 25℃ environment temperature
④When lithium battery is used, the temperature compensate coefficient will be 0,and can't be changed

Environmental Parameters

Working environment temperature◆	-25℃~+50℃(LCD)(full-load working) -30℃~+50℃(No LCD)(full-load working)
Storage temperature range	-20℃~+70℃
Relative humidity	≤95%, N.C.
Enclosure	IP32★
Pollution degree	PD2

◆The controller can work with full-load in the working environment temperature
★3-Protected against solids objects over 2.5mm
2- Protected against direct sprays up to 15° from the vertical

Mechanical Parameters

Item	XTRA1206N XTRA1210N	XTRA2206N XTRA2210N	XTRA3210N	XTRA3215N XTRA4210N	XTRA4215N XTRA3415N	XTRA4415N
Dimension	175×143×48mm	217×158×56.5mm	230×165×63mm	255×185×67.8mm	255×187×75.7mm	255×189×83.2mm
Mounting dimension	120×134mm	160×149mm	173×156mm	200×176mm	200×178mm	200×180mm
Mounting hole size	Φ5mm					
Terminal	12AWG(4mm^2)	6AWG(16mm^2)	6AWG(16mm^2)	6AWG(16mm^2)	6AWG(16mm^2)	6AWG(16mm^2)
Recommended cable	12AWG(4mm^2)	10AWG(6mm^2)	8AWG(10mm^2)	6AWG(16mm^2)	8AWG(10mm^2)	6AWG(16mm^2)
Weight	0.57kg	0.96kg	1.31kg	1.70kg	2.07kg	2.47kg

Standard

Safety	EN/IEC62109-1
EMC(Emission immunity)	EN61000-6-3/EN61000-6-1
FCC	47 CFR Part 15, Subpart B
Performance &function	IEC62509