






Solar Charge Controllers

Features	SC30	SB1524iX		SB2512i-HV SB2512iX-HV	SB3000i	SB3024iL SB3024DiL	
Technology:	PWM	MPPT		MPPT	MPPT	MPPT	
Battery Nominal Voltage:	12 V	12 V	24 V	12 V	12 V	12 V	24 V
Recommended Max Panel Power:	450 W 36-cell PV panel ⁽¹⁾	270 W 36-cell PV panel ⁽¹⁾ 200 W 60/72-cell panel ⁽¹⁾	400 W 72-cell PV panel ⁽¹⁾	340 W 36-cell PV panel ⁽¹⁾ 270 W 60-cell PV panel ⁽¹⁾	400 W 36-cell PV panel ⁽¹⁾ 290 W 60-cell PV panel ⁽¹⁾	540 W 36-cell PV panel ⁽¹⁾ 400 W 60/72-cell panel ⁽¹⁾	800 W 72-cell panel ⁽¹⁾
Battery (Output) Current:	30 A 36-cell PV panel ⁽¹⁾	20 A 36-cell PV panel ⁽¹⁾ 15 A 60/72-cell panel ⁽¹⁾	15 A	25 A 36-cell PV panel ⁽¹⁾ 20 A 60-cell PV panel ⁽¹⁾	30 A 36-cell PV panel ⁽¹⁾ 22 A 60-cell PV panel ⁽¹⁾	40 A 36-cell PV panel ⁽¹⁾ 30 A 60/72-cell PV panel ⁽¹⁾	
Recommended Max Panel Voc at STC:	24 V	45.6 V		40 V	40 V	45.6 V	
Battery Type:	Lead-Acid (default) or Lithium	Lead-Acid (default) or Lithium (programmable ²)		Lead-Acid (default) or Lithium (programmable ²)	Lead-Acid (default) or Lithium	Lead-Acid (default) or Lithium (programmable ²)	
Auxiliary Output:	-	20 A with LVD or 2nd Battery	15 A with LVD or 2nd Battery	25 A with LVD or 2nd Battery (only SB2512iX-HV)	20 A with LVD or 2nd Battery	20 A with LVD or 2nd Battery	
Onboard Display:	Yes	-		-	Yes	only SB3024DiL	
Remote Display: ³	-	Yes		Yes	Yes	Yes	
Bluetooth adapter: ⁴	-	Yes		Yes	Yes	Yes	
Mounting:	Flush Mounting	Surface or Flush Wall Mounting		Surface or Wall Flush Mounting	Flush Mounting	Surface Mounting	
IPN Network:	-	Yes		Yes	Yes (only Master)	Yes	
Applications:							
Certifications:	CE, FCC, RoHS	CE, FCC, RoHS		CE, FCC, RoHS	CE, FCC, RoHS	cETLus, CE, FCC, RoHS	
Warranty:	5 years	5 years		5 years	5 years	5 years	

(1) 36-cell panels are typically are referenced as "12 V panels" providing Vmp/Voc of -19 V/23 V at STC, 60-cell panels are referenced as "20 V panels" (Vmp/Voc -31 V/38 V), 72-cell panels are referenced as "24 V panels" (Vmp/Voc -38V / 46V).
 (2) Charge profile programmable by IPN ProRemote, ProTouch, BT Connect, or UCM
 (3) Remote display IPN Remote, IPN ProRemote, and ProTouch
 (4) Bluetooth communication with BT Connect

Accessories

Features	IPN Remote	IPN ProRemote	BT Connect	ProTouch	UCM	WayPoint
Description:	Remote Display 1-Line LED	Remote Display 2-Line LCD	Bluetooth Adapter	Remote Display 3.5" Touch-Screen Graphic	Datalogger	Universal Gateway Cloud-based
Monitoring:	Basic Battery Monitoring	Enhanced Battery Monitoring	Full Monitoring via App (Smartphone/Tablet)	Full Battery Monitoring	Monitoring over the Internet (PC/Laptop)	Monitoring over the Internet (PC/Laptop/ Smartphone/Tablet)
Programming capability:	-	Full	Full Programming via App (Smartphone/Tablet)	5 Preset Charge Profiles	Full	-
Shunt Current (optional):	-	Yes	-	Yes	-	-
Communication Interface:	RJ-11	RJ-11	RJ-11, Bluetooth	RJ-11	RJ-11, RS-485, TCP/IP Ethernet	Wifi, Bluetooth, RJ-11, RS-485, RS-232, and CAN bus
Applications:	RVs and Marine	RVs and Marine	RVs, Marine, Off-Grid, Solar Street Lighting	RVs, Marine, Off-Grid	Off-Grid	Track, Mobile, Off-Grid
Mounting:	Flush Mounting	Flush Mounting	Surface Wall Mounting	Flush Mounting	Surface Wall Mounting	Surface Wall Mounting
Certifications:	CE, RoHS	CE, RoHS	RoHS, FCC	RoHS	RoHS	RoHS
Warranty:	5 years	5 years	5 years	5 years	5 years	5 years