

Genasun Buck Charge Controllers

	GV-4	GV-5	GV-5-MOD	GV-10
Technology:	MPPT Buck	MPPT Buck	MPPT Buck	MPPT Buck
Battery Nominal Voltage (lead-acid versions):	12 V	12 V	12 V	12 V
Battery Voltage Configuration (lithium versions):	-	3S/4S	3S and 4S ⁽¹⁾	3S/4S
Charge Profile:	Muti-Stage Lead-Acid	Muti-Stage Lead-Acid, CC/CV (default) or Multi-Stage Lithium		
Recommended Panel Power: ²	50 W	50 W - 75 W	50 W - 75 W	120 W - 160 W
Recommended Max Panel Voc at STC:	22 V	22 V	22 V	27 V
Rated Battery Current:	4 A	5 A	5 A	10.5 A
Trickle Charge to Recover Dead (0V) Battery:	-	Yes	Yes	(3)
Load Output:	-	5 A with LVD	5 A with LVD	-
Genasun Overdrive: ⁴	-	Yes	Yes	-
Environmental Protection:	IP 40	IP 40	IP 00 (Board)	IP 40
Certifications:	cETLus, CE, FCC, RoHS	cETLus, CE, FCC, RoHS	cETLus, CE, FCC, RoHS	cETLus, CE, FCC, RoHS
Warranty:	5 years	10 years	10 years	5 years

(1) Dual firmware selectable by user.

(2) Recommended Panel Power based on the battery chemistry and configuration. See manual for more info.

(3) Kit BootStrap (ask for information).

(4) Genasun Overdrive: adaptive power-limiting technology allow the use of solar arrays which exceed the controllers rated power. See manual for more info.

MPPT Buck (step-down) ↓

GV-4, GV-5, GV-5-MOD, GV-10



Genasun Boost Charge Controllers

	GVB-8	GVB-8-WP
Technology:	MPPT Boost	MPPT Boost
Battery Nominal Voltage (lead-acid versions):	12 V / 24 V / 36 V / 48 V	12V / 24V / 36V / 48V
Battery Voltage Configuration (lithium versions):	from 4S to 16S	from 4S to 16S
Charge Profile:	Muti-Stage Lead-Acid, CC/CV (default) or Multi-Stage Lithium	Muti-Stage Lead-Acid, CC/CV or Multi-Stage Lithium
Recommended Panel Power:	105 W / 210 W / 325 W / 350 W	105 W / 210 W / 325 W / 350 W
Recommended Max Panel Vmp at STC:	13 V / 26 V / 41 V / 43 V	13 V / 26 V / 41 V / 43 V
Recommended Max Panel Voc at STC:	50 V	50 V
Minimum Panel Input Voltage:	5 V	5 V
Rated Panel Input Current: ⁵	8 A	8 A
Max Battery Charge Voltage:	60 V	60 V
Trickle Charge to Recover Dead (0V) Battery:	Yes	Yes
Environmental Protection:	IP 40	IP 68 (Waterproof)
Certifications:	cETLus, CE, FCC, RoHS	CE, FCC, RoHS
Warranty:	5 years	5 years

(5) Panel ratings have increased since we designed the GVB. Although we don't believe in changing specifications without a corresponding engineering change, based on both our customers' experiences over the years as well as the headroom we designed into the GVB, we feel comfortable recommending the GVB for panels with Imp up to 9A.

MPPT Boost (step-up) ↑

GVB-8, GVB-8-WP

