

Battery Settings for Victron Energy Products

Solar Energy Australia's Guardian system should only be installed by a suitably qualified person.

It is the responsibility of the installer and/or integrator to have a comprehensive understanding of the Victron products to be installed and application before installing the battery system.

Ensuring the battery system operates as required, the below settings should be followed. Inverters and inverter chargers draw additional power when starting up, failing to follow this guide could result in system shutdowns

Battery System recommended for Victron Energy Multiplus & Quattro Products

Product	Guardian 26	Guardian 38	Guardian 50
MultiPlus 48/1200/13-16 230V VE.Bus	YES	YES	YES
MultiPlus 48/1600/20-16 230V VE.Bus	YES	YES	YES
MultiPlus 48/2000/25-32 230V VE.Bus	YES	YES	YES
MultiPlus 48/3000/35-16 230V VE.Bus	YES	YES	YES
MultiPlus 48/3000/35-50 230V VE.Bus	YES	YES	YES
MultiPlus-II 48/3000/35-32 230V	YES	YES	YES
MultiPlus-II 48/3000/35-32 230V GX	YES	YES	YES
MultiPlus-II 48/5000/70-50 230V	YES	YES	YES
MultiPlus-II 48/5000/70-50 230V GX	YES	YES	YES
MultiPlus 48/5000/70-100 230V VE.Bus	YES	YES	YES
MultiPlus-II 48/8000/110-100 230V	NO	YES	YES
MultiPlus-II 48/10000/140-100 230V	NO	NO	YES
MultiPlus-II 48/15000/200-100 230V	NO*	NO*	NO*
Quattro 48/5000/70-100/100 230V VE.Bus	YES	YES	YES
Quattro-II 48/5000/70-50/50 230V	YES	YES	YES
Quattro 48/8000/110-100/100 230V VE.Bus	NO	NO	YES
Quattro 48/10000/140-100/100 230V VE.Bus	NO	NO	YES
Quattro 48/15000/200-100/100 230V VE.Bus	NO*	NO*	NO*

* It is recommended that a Guardian 26 & Guardian 38 be installed in parallel

PCE Settings For Victron Multi and Quattro

General	Guardian 26	Guardian 38	Guardian 50
Enable Battery Monitor	Yes		
Total Battery Capacity	25800	38700	51600
SOC When Bulk Finished	90%		
Charge Efficiency	0.96		
Inverter			
DC Input Low shutdown	10% SOC		
DC Input Low Restart	45.4VDC		
DC Input Low Pre-Alarm		44.4VDC	
Low SOC Shutdown	Disable		
Charger			
Enable Charger	ON		
Charge Current	180A	250A	250A
Absorb Voltage	Disable		
Float Voltage (Cyclic)	57.4VDC		
Repeated Absorb Interval	N/A		
Maximum Absorb Time	0 Hours		
Battery Charge Curve	Fixed		
Battery Type	Lithium		

Victron Energy Phoenix VE.Direct Inverters

General	Guardian 26	Guardian 38	Guardian 50
Dynamic Cut-Off	OFF		
Low Battery Shutdown	44.4 VDC 10% SOC		
Low Battery Restart & Alarm	45.4 VDC		
Charge Detect	52VDC		

Victron BMV & SmartShunt Settings

General	Guardian 26	Guardian 38	Guardian 50
Battery Capacity	25800	38700	51600
Charged Voltage	57.4VDC		
Discharge Floor	20%		
Tail Current	4%		
Charge Detection Time	1 Minute		
Peukert Exponent	1.02		
Charge Efficiency Factor	96%		
Current Threshold	0.1A		
Time To Go Average Period	3 Minutes		

Solar MPPT and Charge Controllers

General	Guardian 26	Guardian 38	Guardian 50
Max Charge Current	180A	250A	250A
Charge Enabled	YES		
Battery Pre-set	User Defined		
Expert Mode	ON		
Absorb Voltage	58.8VDC		
Float Voltage (Cyclic)	57.4VDC		
Equalisation Voltage	57.4VDC		
Re-bulk Offset	0.4V		
Absorb Duration	(Fixed)		
Absorb Time	0 Hours		
Equalisation Current Percentage	0%		
Auto Equalisation	Disabled		
Temperature Compensation	OFF		
Low Temperature Cut-off	0°C		