

Low Voltage 48V Energy Storage Solution								
Brand of Inverter	Inverter Type	Battery	Communication	Application	Key Features		Firmware Ver.	Installation
					Activation	Force Charge		
Victron Energy	Multiplus 48V (via Venus OS)	US2000 US2000V2 US3000 US2000C US3000C US5000 US5000-B UP5000 Phantom-S Force-L1 Force-L2 Pelio-L	CAN	On/off-grid*	Yes	Yes	422/V2.15	Wall mounting
Victron Energy	Quattro 48V (via Venus OS)		CAN	On/off-grid*	Yes	Yes	422/V2.15	Wall mounting
SMA Solar Technology AG	SI 4.4-M		CAN	On/off-grid****	No	Yes		Wall mounting
	SI 6.0-H		CAN	On/off-grid****	No	Yes		Wall mounting
	SI 8.0-H		CAN	On/off-grid****	No	Yes		Wall mounting
	SI 6048US		CAN	On/off-grid****	No	Yes		Wall mounting
Schneider-Electric	Conext XW Pro series		CAN	On/off-grid	Yes	Yes	Gateway: V1.06 XW+ Pro: V1.04 (UL) / V1.05 (IEC)	Wall mounting
Goodwe	GW-BP		CAN	On-grid	Yes	Yes		Wall mounting
Goodwe	SBP GW-ES		CAN	On-grid	Yes	Yes		Wall mounting
Goodwe	EM		CAN	On-grid	Yes	Yes		Wall mounting
Imeon Energy	IMEON 3.6		CAN	On/off-grid	Yes	Yes	V1.7.6.5	Wall mounting
Imeon Energy	IMEON 9.12		CAN	On/off-grid	Yes	Yes	V1.7.6.5	Wall mounting
Studer Innotec	Xtender 48V serie		CAN	On/off-grid	Yes	Yes	R652	Wall mounting
Studer Innotec	VarioString serie		CAN	On/off-grid	Yes	Yes	R652	Wall mounting
Studer Innotec	VarioTrack 48V serie		CAN	On/off-grid	Yes	Yes	R652	Wall mounting
Selectronic	SPMC 480		CAN	On/off-grid	No	Yes		Wall mounting
Selectronic	SPMC 481		CAN	On/off-grid	No	Yes		Wall mounting
Selectronic	SPMC 482		CAN	On/off-grid	No	Yes		Wall mounting
Voltronic	Infinisolar series 48V		RS485(9600)	On/off-grid	Yes	Yes	V1.00	Wall mounting
Voltronic	Axpert series 48V**		RS485(9600)	On/off-grid	Yes	Yes	V2.61	Wall mounting
Sofar	ME3000SP		RS485(115200)/CAN	On-grid	Yes	Yes	V1.2	Wall mounting
Sofar	HYD series		RS485(115200)/CAN	On-grid	Yes	Yes	V1.2	Wall mounting
Sermatec	SMT-5K-TL-LV		RS485(9600)/CAN	On/off-grid	Yes	Yes		Wall mounting
Zucchetti Centro Sistemi	Azzurro 3000SP		RS485(115200)/CAN	On-grid	Yes	Yes	V1.2	Wall mounting
Zucchetti Centro Sistemi	Azzurro HYD3000/6000-ES		RS485(115200)/CAN	On-grid	Yes	Yes	V1.2	Wall mounting
Solis	RHI series		CAN	On/off-grid	PV only	Yes	90009	Wall mounting
Solis	RAI series		CAN	On/off-grid	PV only	Yes	90009	Wall mounting
Redback	SH5000		RS485(115200)	On-grid	PV only	No		Cabinet
Deye(Sunsynk)	SUN-SG01LP1 series		CAN	On/off-grid	Yes	Yes	V1586	Wall mounting
Deye(Sunsynk)	SUN-SG03LP1 series		CAN	On/off-grid	Yes	Yes	V1586	Wall mounting
Alpha & Outback Energy	SPCIII-5000-48		RS485(9600)	Off-grid	Yes	Yes	91.24	Wall mounting
	SPCIII-7200-48		RS485(9600)	Off-grid	Yes	Yes	45.06	Wall mounting
	SPCIII-5000-48		RS485(9600)	Off-grid	Yes	Yes	71.1	Wall mounting
Lux Power	LXP 3-6K Hybrid		CAN	On/off-grid	Yes	Yes	AA1.0	Wall mounting
Lux Power	ACS series		CAN	On/off-grid	Yes	Yes	AA1.0	Wall mounting
Lux Power	SNA series		CAN	On/off-grid	Yes	Yes	AA1.0	Wall mounting
Lux Power	LXP-LB-EU Series		CAN	On/off-grid	Yes	Yes	EA1.0 (for 8K/10K model) fA1.0 (for 12K model)	Wall mounting
Lux Power	LXP-LB-US Series		CAN	On/off-grid	Yes	Yes	EA1.0 (for 8K/10K model) fA1.0 (for 12K model)	Wall mounting
Sungrow	SH5K		CAN	On-grid	Yes	Yes	V13	Wall mounting
Morningstar	TriStar MPPT in 48V		N/A	On/off-grid	PV only	No	v32b	Wall mounting
Morningstar	TriStar MPPT 600V in 48V	N/A	On/off-grid	PV only	No	v32b	Wall mounting	
Morningstar	TriStar PWM TS-45 in 48V	N/A	On/off-grid	PV only	No	v32b	Wall mounting	
Morningstar	GS-MPPT-60M/80M/100M-200V*****	CAN	On/off-grid	PV only	No	v2.0	Wall mounting	
Delios s.r.l.	DLS/C series	CAN	On/off-grid	No	Yes	A 1.30; B 1.18; C1.27	Wall mounting	
Delios s.r.l.	DLS AC series	CAN	On/off-grid	No	Yes	A 1.30; B 1.18; C1.27	Wall mounting	
Ingeteam Power Technology	ISS 1Play TL M series	CAN	On/off-grid	Yes	Yes	ABH1007_D	Wall mounting	
MLT	Oasis 448	N/A	Off-grid	No	Yes	V2.19	Wall mounting	
MLT	Oasis 648	N/A	Off-grid	No	Yes	V2.19	Wall mounting	
Steca	Solarix PLI 5000-48	N/A	Off-grid	Manual	No		Wall mounting	
SAJ	Sunfree series	RS485(9600)	On/off-grid	Yes	Yes	V2.031/V1.037	Wall mounting	
SAJ	H1 series	CAN	On/off-grid	Yes	Yes	V2.094/V1.318	Wall mounting	
SolarMax	ES series	CAN	On/off-grid	No	Yes	A 1.30; B 1.18; C1.27	Wall mounting	
SolarMax	AC series	CAN	On/off-grid	No	Yes	A 1.30; B 1.18; C1.27	Wall mounting	
Growatt	SPH3000 - 6000	CAN	On/off-grid	No	Yes	RA1.0	Wall mounting	
Growatt	SPF2000 - 5000 HVM-48/LVM-48P***	RS485(9600)	On/off-grid	No	Yes	GW500.08/502.05/503.03/507.03	Wall mounting	
Growatt	M2000H/3000H/5000H - 48***	RS485(9600)	On/off-grid	No	Yes	SK001.11/012.06/013.03/035.00	Wall mounting	
Sol-Ark	Sol-Ark-5K/8K-48-ST, Sol-Ark-5K-120V, Sol-Ark-8K-120/230V, Sol-Ark-8K-230-1P, Sol-Ark-12K-P, Sol-Ark-12K-3P-380V, Limitless 15K-LV	CAN	On/off-grid	Yes	Yes	V1430	Wall mounting	
AXIOMA energy	ISPWM 5000	N/A	On/off-grid	No	No		Wall mounting	
AXIOMA energy	ISMPT BF 3000 - 5000	N/A	On/off-grid	No	No		Wall mounting	
AXIOMA energy	ISGRID (BF) 3000 - 5000	N/A	On/off-grid	No	No		Wall mounting	
Phocos	Any-grid PSW-H-5kW-230/48V	RS485(9600)	On/off-grid	Yes	Yes	V1.00	Wall mounting	
Western CO.	LEONARDO PRO 3000/48 Li (via Western LK3)	CAN	On/off-grid	Yes	Yes	V1.1	Wall mounting	

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EFFEKTA	AX-M1 4000/5000-48 (via Com Box)	US2000 US2000V2 US3000 US2000C US3000C US5000 US5000-B UP5000 Phantom-S Force-L1 Force-L2 Pelio-L	RS485(9600)	On/off-grid	Yes	Yes	54.40/74.40	Wall mounting
EFFEKTA	AX-K1 4000/5000-48 (via Com Box)		RS485(9600)	On/off-grid	Yes	Yes	14.40/34.40	Wall mounting
EFFEKTA	AX-M2 4000/5000-48		RS485(9600)	On/off-grid	Yes	Yes	51.00/72.01	Wall mounting
Kehua	SPH5000-BL		CAN	On-grid	Yes	Yes	V1.00.013	Wall mounting
INVT	BD series		CAN	On/off-grid	Yes	Yes	V1.06	Wall mounting
TBB	Kinergier Pro Series: CK-II 2.0S-3.0S		CAN	On/off-grid	No	Yes	DSP: V1.03C LCD: V1.01B	Wall mounting
TBB	Kinergier Pro Series: CK4.0S-8.0S		CAN	On/off-grid	No	Yes	DSP: V1.23A LCD: V1.21A	Wall mounting
MUST	PV1800 VHM 3KW - 5.5KW		CAN	On/off-grid	No	Yes	1.17.06	Wall mounting
Moixa	Smart Battery V4 3000		CAN	On-grid	Yes	Yes	V2.2.1	Wall mounting
Moixa	GridShare Hub		CAN	On-grid	Yes	Yes	V2.2.1	Wall mounting
MEGAREVO	RKL1 Series		CAN	On/off-grid	Yes	Yes	ARM: 1.00.28 DSP: 1.01.23	Wall mounting
MEGAREVO	R5K/6K/7K/8KLNA		CAN	On/off-grid	Yes	Yes	ARM:1.03.12 DSP:1.04.11	Wall mounting
AISWEI	ASW3000/3680/4000/5000H-S		CAN	On/off-grid	Yes	Yes	master v610-02001-00	Wall mounting
AISWEI	ASW3000/3680/4000/5000/6000H-S2		CAN	On/off-grid	Yes	Yes	DSP:V610-02003-01 Safety:V610-10008-03	Wall mounting
SOROTEC	REVO II - 48V Series		CAN	On/off-grid	Yes	Yes	Inverter:1.5.4 Control board: 64	Wall mounting
SOROTEC	REVO E PLUS - 48V Series		CAN	On/off-grid	Yes	Yes		Wall mounting
SOROTEC	REVO VM II - 48V Series		CAN	Off-grid	Yes	Yes		Wall mounting
SOROTEC	REVO VM PLUS - 48V Series		CAN	Off-grid	Yes	Yes		Wall mounting
FSP Power Solution GmbH	PowerManager series 4-15kW Offgrid PMI III / Zero		RS485(9600)	On/off-grid	Yes	Yes	V1.00 V2.61	Wall mounting
Senergy	SE 4K6/5K/6KHB-60/120		RS485(9600)*****	On/off-grid	PV only	Yes	0.6.0	Wall mounting
Senergy	SE 4K6/5K/6KAC		RS485(9600)*****	On/off-grid	No	Yes	0.6.0	Wall mounting
Livoltek	Hyper series		CAN	On/off-grid	Yes	Yes	1.78	Wall mounting
Livoltek	Retro series		CAN	On/off-grid	Yes	Yes	1.78	Wall mounting
Livoltek	GF1-3K/5K48S1		CAN	Off-grid	Yes	Yes	ARM V0.59 DSP V0.13	Wall mounting
Livoltek	BV1-3K/5K48S1		CAN	Off-grid	Yes	Yes	ARM V0.59 DSP V0.13	Wall mounting
Hoymiles	HYS-LV Series		CAN	On/off-grid	Yes	Yes	Power - V01.04.19 and above Safety - V01.02.13 and above System - V00.02.18 and above	Wall mounting
Hoymiles	HAS-LV Series		CAN	On/off-grid	Yes	Yes	Power - V01.04.19 and above Safety - V01.02.13 and above System - V00.02.18 and above	Wall mounting
EAST	EaHI-3000 ~ 6000-SL		RS485	On/off-grid	Yes	Yes	master V1001, dsp V1004	Wall mounting
LEDIT	FVDi series	CAN	On/off-grid	No	Yes	A 1.30; B 1.18; C1.27	Wall mounting	
Growocol	MKS IV 5.6KW -B MKS IV 6KW TWIN MAX II-8000	RS485(9600)	On/off-grid	Yes	Yes		Wall mounting	
OPTI-Solar	SP5000 Brilliant series	RS485(9600)	On/off-grid	Yes	Yes	V1.00/00.32	Wall mounting	
OPTI-Solar	SP5000 Regal/Handy Plus	RS485(9600)	On/off-grid	Yes	Yes	V1.00/00.32	Wall mounting	
OPTI-Solar	SP4000/10000 Premium	RS485(9600)	On/off-grid	Yes	Yes	V1.00/00.32	Wall mounting	
GMDE	SolDate 3700TL+BM024	RS485(9600)	On-grid	No	Yes	V2.0.1	Wall mounting	

*When compatible with Victron Multi/Quattro in off-grid application via Venus-device, it is required to have a Victron MPPT or other compatible PV inverter with Victron to avoid the system getting shut down.
 **When compatible with Voltronic Apert series, only VM III and King two types are available for RS485 communication, for the rest types of Apert only available for manual settings. When using VM III and King, only launch firmware 02.61 or higher can work with Force L1/L2.
 ***When compatible with Growatt SPF/M series corresponding type, according to inverter logic, the depth of discharge(DoD) of battery shall be set to 80% or lower. Otherwise may lead to system shut down and need of manually recharge battery.
 ****When compatible with SMA SI4.4-M / SI6.0-H / SI8.0-H, it's required to follow the min. configuration table from SMA for a guaranteed configuration. The Force L1/L2 is not compatible with SMA SI series.
 *****When compatible with Senergy inverter, max. configure 1 string of battery system, donot support multiple strings' connection.
 *****When compatible with GS-MPPT-60M/80M/100M-200V, it requires optional ReadyBMS accessory.

High Voltage 100 - 1000V Energy Storage Solution								
Brand of Inverter	Inverter Type	Battery	Communication	Application	Key Features		Firmware Ver.	Installation
					Activation	Force Charge		
Ingeteam Power Technology	ISS 1Play 3TL / 6TL	Powercube X1 / X2 Powercube H1 / H2 Force H1 / H2 Powercube X1 / X2-V2 Powercube H1 / H2-V2 Force H1 / H2-V2	CAN	On/off-grid	Yes	Yes	ABH1002AA ABH1003_Q(displ)	Wall mounting
Ingeteam Power Technology	ISS 1Play 3TL M / 6TL M		CAN	On/off-grid	Yes	Yes	ABH1007_A ABH1003_Q(displ)	Wall mounting
Solis	RH1-1P-HVES-5G series(1)		CAN	On/off-grid	Yes	Yes	V08(1) 4002E(2)	Wall mounting
Solis	RH1-3P-HVES-5G series(2)		CAN	On/off-grid	Yes	Yes	V08(1) 4002E(2)	Wall mounting
Solis	S6-EH1P(3.8-11.4)K-H-US		CAN	On/off-grid	Yes	Yes	V08(1) 4002E(2)	Wall mounting
SMA Solar Technology AG	SBS 3.7-10 - SBS6.0-10**		CAN	On/off-grid	Yes	Yes	04.04.03.R	Wall mounting
KOSTAL Industrie Elektrik GmbH	PLENTICORE plus*** PLENTICORE plus G2*** PLENTICORE BI xx/26*** PLENTICORE BI xx/26 G2***		RS485	On/off-grid	Yes	Yes	02.08.xxxxx	Wall mounting

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					Activation	Force Charge		
Sungrow	SH5.0/6.0/8.0/10.0RT	Powercube X1 / X2 Powercube H1 / H2 Force H1 / H2 Powercube X1 / X2-V2 Powercube H1 / H2-V2 Force H1 / H2-V2	CAN	On/off-grid	Yes	Yes	SAPPHIRE-H_V11_V01_A	Wall mounting
Delios s.r.l.	DLX HV series		CAN	On/off-grid	Yes	Yes	V3.00	Wall mounting
Goodwe	EH/ET/BT/BH series		CAN	On/off-grid	Yes	Yes	V14	Wall mounting
EATON	xStorage Home 3P Series		CAN	On/off-grid	Yes	Yes	V3.00	Wall mounting
SolarMax	ES-T Series		CAN	On/off-grid	Yes	Yes	V3.00	Wall mounting
Deye(Sunsynk)	SUN-5~20K-SG01HP3-EU* SUN-20~30K-SG01HP3-US* SUN-29.9~50K-SG01HP3-EU*		CAN	On/off-grid	Yes	Yes	2001-X018	Wall mounting
Lux Power	Hybrid HB series		CAN	On/off-grid	Yes	Yes		Wall mounting
Redback	RB-HVS(ST10000)(1) RB-HVS-AC(SB7200)(2)		Modbus RTU	On/off-grid	Yes	Yes	V2.6(1) V2.9(2)	Cabinet
Sofar	HYD 10000/15000/20000 TL-3PH		CAN	On/off-grid	Yes	Yes	FW: D0110036 DSP: V010027	Wall mounting
Sunways	STH-4-12KTL-HT series STH-3-8KTL-HS series STR-4-12KTL-HT series STR-3-8KTL-HS series		CAN	On/off-grid	Yes	Yes	ARM: V0054	Wall mounting
eCACTUS	WH-SPA-3.68H(1) WH-SPA-5.0H(1) WH-SHC series(2) WH-THA series(2)		Modbus RTU	On/off-grid	Yes	Yes	21426-004R(1) 21426-005R(1) 511-00007-03(2)	Wall mounting
Senergy	SE 3K-6KHB-HV SE 5K-30KHB-D3		CAN	On/off-grid	Yes	Yes	V010000	Wall mounting
Salicru S.A.	EQX2 3001-8002-HSX series EQX2 4002-12002-HT series		CAN	On/off-grid	Yes	Yes	V1 . 28 . 45 . 04 . 00	Wall mounting
HYPONTECH	HHS series(1) HBS series(1) HHT series(2) HBT series(2)		CAN	On/off-grid	Yes	Yes	Ver.23(1) Ver.29(2)	Wall mounting
AISWEI	ASW06H/08H/10H/12H/15H-T1(1) ASW05kH/06kH/08kH/10kH/12kH-T2(2) ASW08kH/10kH/12kH-T3(2)		CAN	On/off-grid	Yes	Yes	DSP:1.04.00(1) ARM:V610-60005-02(1) V610-05001-00(2)	Wall mounting
SOLINTEG	MHT-4~20K Series MHT-25~50K Series MHS-3~8K Series MRT-4~20K Series MRT-25~50K Series MRS-3~8K Series		CAN	On/off-grid	Yes	Yes	ARM: V00(18)	Wall mounting
ETEK	ETH-3-8KTL-HS Series ETH-4-20KTL-HT Series ETH-25-50KTL-HT Series		CAN	On/off-grid	Yes	Yes	ARM: V00(18)	Wall mounting
MEGAREVO	R6-15KH3 Series		CAN	On/off-grid	Yes	Yes	ARM:V1.02.13 DSP:V1.03.14	Wall mounting
MEGAREVO	R6-12KH1NA Series		CAN	On/off-grid	Yes	Yes	ARM:V1.01.41 DSP:V1.02.20	Wall mounting
Hoymiles	HYT-HV Series HAT-HV Series		CAN	On/off-grid	Yes	Yes	Power - V00.04.07 Safety - V00.04.06 System - V00.02.18	Wall mounting
KOYOE	KY-EST06KH-KY-EST20KH		CAN	On/off-grid	Yes	Yes	320701	Wall mounting
Dream Maker	PCS-3-4~20kW-25(40)A-1 PCS-1-3~8kW-30A-1 PCS-3-25~50kW-100A-1		CAN	On/off-grid	Yes	Yes	ARM: V01(08)	Wall mounting
SAJ	H2-3K-6K-S2 H2-5K-10K-T2		CAN	On/off-grid	Yes	Yes	V1.018	Wall mounting
LEDIT	FVDx series		CAN	On/off-grid	Yes	Yes	V3.00	Wall mounting
Sermatec	SMT-10K/30K/50K-TL-TH		CAN	On-grid	Yes	Yes		Wall mounting
Imeon Energy	3/3.7/4.6/5HV		CAN	On/off-grid	Yes	Yes	V1.10	Wall mounting
Growatt	SPH10000TL3		CAN	On/off-grid	Yes	Yes	V410	Wall mounting
Tsun	TSOL-H/A-3.0~6.0K-H		CAN	On/off-grid	Yes	Yes	DSP:V1.0; ARM:V1.14	Wall mounting
GMDE	TB5200TD		CAN	On-grid	Yes	Yes	1.0.3	Wall mounting
Voltronic	Infinisolar TX-PA 30K		Modbus RTU	On/off-grid	Yes	Yes	2008.27.12	Cabinet
Blue Mountain Energy	BME-20 BME-30	Modbus RTU	On/off-grid	Yes	Yes	21-01-27 DSP:2101.2212 MCU:2011.1712	Cabinet	
SOLINTEG	MHT-25~50K Series MRT-25~50K Series	CAN	On/off-grid	Yes	Yes	ARM: V01(08)	Wall mounting	
ATESS	HPS30/50/100/120/150	CAN	On/off-grid	Yes	Yes	HPS30K_150K_HV3_SV9.1.3 9	Cabinet	
MEGAREVO	MPS0030~0500 Series	CAN	On/off-grid	Yes	Yes	V302B400D014	Cabinet	
MEGAREVO	MEGA0030~0500TS Series MEGA0500/MEGA0630	CAN	On/off-grid	Yes	Yes	V102B500D014	Cabinet	
Growacol	GW-MPS0030~0500 Series	CAN	On/off-grid	Yes	Yes	V302B400D014	Cabinet	
Efacec	Battery Inverter	Customised with additional EMS	On/off-grid					Cabinet
Ferroamp	EnergyHub							
Sungrow	SC series							
Sinexcel	PWS/PWG series							
Kehua	BCS series							

*When compatible with Deye hybrid inverter mentioned in the list above, make sure the Battery Controller firmware is as below or higher:

(1) Force-H1/H2: V1.7; (2) Force-H1/H2-V2: V1.1; (3) Powercube-XH: V5.7; Powercube-XH-V2: V1.2.

**Only Force-H1-V2 and Force-H2-V2 is compatible with SMA Sunny Boy Storage inverters mentioned in the list above.

***Only Force-H1-V2 and Force-H2-V2 is compatible with Kostal PLENTICORE series inverter mentioned in the list above.