



SOFAR 1.1k~3.3kTL-G3

1100/1600/2200/2700/3000/3300

Single-Phase

Single-MPPT

1.4

1.4 DC overload



IP65 ingress protection

97.7%

Max. efficiency up to 97.7%



Light weight, quick and easy to install

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Built-in zero export function



Smart monitoring, RS485, Wifi/Ethernet/GPRS(optional)

Datasheet

SOFAR 1100TL-G3 SOFAR 1600TL-G3 SOFAR 2200TL-G3 SOFAR 2700TL-G3 SOFAR 3000TL-G3 SOFAR 3300TL-G3

Input (DC)

Recommended Max. PV input power	1500Wp	2200Wp	3000Wp	3700Wp	4100Wp	4500Wp
Max. Input voltage	500V	500V	500V	550V	550V	550V
Start-up voltage				70V		
Rated input voltage				360V		
MPPT operating voltage range	50-500V	50-500V	50-500V	50-550V	50-550V	50-550V
Full power MPPT voltage range	110-450V	150-450V	200-450V	250-500V	275-500V	300-500V
Max. Input current MPPT				12A		
Maximum DC input short circuit current per MPPT				15A		
Number of MPPT/ String per MPPT				1/1		
Input terminal type				MC4/H4		

Output (AC)

Rated power	1100W	1600W	2200W	2700W	3000W	3300W
Max. AC power	1100VA	1600VA	2200VA	2700VA	3000VA	3300VA
Rated Output current	4.8A	7A	9.6A	11.8A	13A	14.3A
Max. Output current	5.3A	7.7A	10.6A	13A	14.5A	16A
Nominal grid voltage				L/N/PE, 220Vac, 230Vac, 240Vac		
Grid voltage range				180Vac-276Vac (According to local standard)		
Nominal frequency				50Hz/60Hz		
Grid frequency range				45--55Hz/54--66Hz (According to local standard)		
THDi				<3%		
Power factor				1default (adjustable +/- 0.8)		

Efficiency

Max. Efficiency	97.5%	97.5%	97.5%	97.7%	97.7%	97.7%
European weighted efficiency	96.9%	96.9%	96.9%	97.2%	97.2%	97.2%
Self-consumption at night				<1W		
MPPT efficiency				>99.9%		

Protection

Anti-Islanding protection	Yes
DC reverse polarity protection	Yes
Over temp protection	Yes
Leakage current protection	Yes
Over voltage protection	Yes
Over current protection	Yes
Earth fault protection	Yes
SPD	MOV: Type III standard

Communication

Standard communication mode	RS485, WiFi/GPRS/Ethernet(optional), USB
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General Data

Topology	Transformerless					
Ambient temperature range	-30°C~+60°C					
Allowable relative humidity range	0~100%					
Noise	<25dB					
DC switch	optional					
Cooling	Natural					
Max. Operating altitude	2000m					
Dimension[mm]	303*260.5*118	303*260.5*118	303*260.5*118	321*260.5*131.5	321*260.5*131.5	321*260.5*131.5
Support bracket	Wall-mounted					
Weight	5.5kg	5.5kg	5.5kg	6.3kg	6.3kg	6.3kg
Display	LCD+LED					
Degree of protection	IP65					
Warranty	5 years/ 7 years/ 10 years					

Standard








EMC	EN 61000-6-1, EN 61000-6-3, EN 61000-3-2, EN 61000-3-3
Safety standards	IEC 62116, IEC 61727, IEC 61683, IEC 60068(1,2,14,30), IEC 62109-1/2
Grid standards	AS 4777, VDE V 0124-100, VDE V 0126-1-1, VDE-AR-N 4105, G83/2, C10/11, RD 1699

SOFAR **3k~7.5kTL-G2**

3000/3600/4000/4600/5000/6000/7500



Single-Phase **Dual-MPPT**

-  Built-in zero export function
-  IP65 ingress protection
-  Max. efficiency up to 98.2%
-  Smart monitoring, RS485, Wifi/Ethernet/GPRS (optional)
-  2 MPPT high precision string detection
-  I-V curve scanning function
-  Built-in sound and light alarm function

Datasheet

SOFAR 3KTLM-G2 SOFAR 3.6KTLM-G2 SOFAR 4KTLM-G2 SOFAR 4.6KTLM-G2 SOFAR 5KTLM-G2 SOFAR 6KTLM-G2 SOFAR 7.5KTLM

Input (DC)

Recommended Max. PV input power	3990Wp	4790Wp	5320Wp	6120Wp	6650Wp	7980Wp	9980Wp
Max DC power for single MPPT	3500W	3500W	3500W	3500W	3500W	3500W	2*2750W/ 2750W
Number of MPP trackers	2						
Number of DC inputs	1/1						2/1
Max. Input voltage	600V						
Start-up voltage	120V						
Rated input voltage	360V						
MPPT operating voltage range	90-580V						
Full power MPPT voltage range	160V-520V	180V-520V	200V-520V	230V-520V	250V-520V	300V-520V	250V-520V
Max. Input current per MPPT	11A/11A						22A/11A
Maximum DC input short circuit current per MPPT	13.2A						26.4/13.2A

Output (AC)

Rated power	3000W	3680W	4000W	4600W	5000W	6000W	7500W
Max. AC power	3000VA	3680VA	4000VA	4600VA	5000VA	6000VA	7500VA
Max. Output current	13.7A	16.8A	18.2A	21A	22.8A	27.3A	32.6A
Nominal grid voltage	L/N/PE, 220Vac, 230Vac, 240Vac						
Grid voltage range	180Vac-276Vac (According to local standard)						
Nominal frequency	50Hz/60Hz						
Grid frequency range	45Hz-55Hz/54Hz-66Hz (According to local standard)						
Active power adjustable range	0-100%						
THDi	<3%						
Power factor	1 default (adjustable +/-0.8)						
Power limit export	Zero export or adjustable power limit export						

Performance

Max efficiency	98.0%	98.2%
European weighted efficiency	97.5%	97.6%
Self-consumption at night	<1W	
MPPT efficiency	>99.9%	

Protection

DC reverse polarity protection	Yes
DC switch	Optional
Protection class/overvoltage category	I/III
Safety protection	Anti islanding, RCMU, Ground fault monitoring
SPD	MOV: Type III standard

Communication

Power management unit	According to certification and request
Standard communication mode	Rs485, Wifi/Ethernet/GPRS(optional), SD card(optional)
Operation data storage	25 years

General Data

Ambient temperature range	-25°C-- +60°C	-30°C-- +60°C
Topology	Transformerless	
Degree of protection	IP65	
Allowable relative humidity range	0-100%	
Max. Operating altitude	2000m	
Noise	<25dB	
Weight	11.5kg	18kg
Cooling	Natural	
Dimension	405*315*135mm	467*352*157mm
Display	LCD display	
Warranty	5 years/ 7 years/ 10 years	

Standard







EMC	EN 61000-6-2, EN 61000-6-3, EN 61000-3-2, EN 61000-3-3, EN 61000-3-11, EN 61000-3-12
Safety standards	IEC62109-1/2, IEC62116, IEC61727, IEC-61683, IEC60068(1,2,14,30)
Grid standards	AS/NZS 4777, VDE V 0124-100, V 0126-1-1, VDE-AR-N 4105, CEI 0-21, EN50549, GB3/G59/G98/G99, NB/T32004; ABNT NBR 16149/16150 (for SOFAR3KTLM-G2, SOFAR5KTLM-G2& 7.5KTLM)



SOFAR 3.3k~12kTL-X

3300/4400/5000/5500/6600/8800/11000/12000

Three-Phase Dual-MPPT

-  Integrated with DC switch
-  Max. efficiency up to 98.3%
-  Super large 4-inch LCD
-  Built-in DRM port and logic
-  Smart monitoring, RS485, Wifi/Ethernet/GPRS (optional)
-  Over / under voltage, over current, over temperature, Anti-islanding and other multiple protections

Datasheet

	SOFAR [*] 3.3KTL-X	SOFAR 4.4KTL-X	SOFAR [*] 5KTL-X (Australia)	SOFAR 5.5KTL-X	SOFAR 6.6KTL-X	SOFAR 8.8KTL-X	SOFAR 11KTL-X	SOFAR 12KTL-X
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Input (DC)

Recommended Max. PV input power	4390Wp	5860Wp	6650Wp	7320Wp	8780Wp	11710Wp	14630Wp	15960Wp
Max DC power for single MPPT	3550W	4500W	5700W	5700W	6250W	6200W	6200W	6850W
Number of MPP trackers	2							
Number of DC inputs	1 for each MPPT							
Max. Input voltage	1000V							
Start-up voltage	200V							
Rated input voltage	600V							
MPPT operating voltage range	160-960V							
Full power MPPT voltage range	160V-850V	190V-850V	240V-850V	240V-850V	290V-850V	380V-850V	480V-850V	575V-850V
Max. Input current per MPPT	11A/11A							
Maximum DC input short circuit current per MPPT	14A							

Output (AC)

Rated power	3000W	4000W	5000W	5000W	6000W	8000W	10000W	12000W
Max. AC power	3300VA	4400VA	5000VA	5500VA	6600VA	8800VA	11000VA	13200VA
Max. Output current	4.8A	6.4A	8.0A	8.0A	9.6A	12.8A	15.9A	19.1A
Nominal grid voltage	3/N/PE, 220/380Vac, 230/400Vac, 240/415Vac							
Grid voltage range	310Vac-480Vac (According to local standard)							
Nominal frequency	50Hz/60Hz							
Grid frequency range	45Hz-55Hz/54Hz-66Hz (According to local standard)							
Active power adjustable range	0-100%							
THDi	<3%							
Power factor	1 default (adjustable +/-0.8)							
Power limit export	Zero export or adjustable power limit export							

Performance

Max efficiency	98.0%	98.0%	98.0%	98.0%	98.0%	98.3%	98.3%	98.3%
European weighted efficiency	97.5%	97.5%	97.5%	97.5%	97.5%	98.0%	98.0%	98.0%
Self-consumption at night	<1W							
MPPT efficiency	>99.9%							

Protection

DC reverse polarity protection	Yes							
DC switch	Yes							
Safety protection	Anti islanding, RCMU, Ground fault monitoring							
ARPC	Anti reverse power controller(optional)							

Communication

Power management unit	According to certification and request							
Standard communication mode	RS485, Wifi/Ethernet/GPRS(optional), SD card							
Operation data storage	25 years							

General Data

Ambient temperature range	-25°C ~ +60°C							
Topology	Transformerless							
Degree of protection	IP65							
Allowable relative humidity range	0-100%							
Max. Operating altitude	2000m							
Noise	<29dB							
Weight	21kg	21kg	21kg	21kg	21kg	22kg	22kg	22kg
Cooling	Natural							
Dimension	457*452*202mm							
Display	LCD display							
Warranty	5 years/ 7 years/ 10 years							

Standard

EMC	EN 61000-6-1, EN 61000-6-2, EN 61000-6-3, EN 61000-6-4							
Safety standards	IEC62109-1/2, IEC62116, IEC61727, IEC-61683, IEC60068(1,2,14,30), IEC60255							
Grid standards	AS/NZS 4777, VDE V 0124-100, V 0126-1-1, VDE-AR-N 4105, CEI 0-21, EN50549, G83, Rd1699, UTE C15-712-1, EN50530, NB/T32004							

The models marked with "*" should be available only for some designated countries.

SOFAR 10k~15kTL-G2

10000 / 12000 / 15000



Three-Phase Dual-MPPT



Fuse free design



Built-in DRM port and logic



I-V curve scanning function



Max. efficiency up to 98.3%



Outdoor IP65 protection level



Smart control and flexible configuration

Datasheet	SOFAR 10000TL-G2	SOFAR 12000TL-G2	SOFAR 15000TL-G2
Input (DC)			
Max. PV input power	18000Wp	18000Wp	19950Wp
Max DC power for single MPPT	11000W/7500W	11000W/7500W	11000W/7500W
Number of MPP trackers		2	
Number for DC inputs		3	
Max. input voltage		1000V	
Start-up voltage		200V	
Rated input voltage		600V	
MPPT operating voltage range		160V-960V	
Full power MPPT voltage range		300V-840V	
Max. input MPPT current		21A/11A	
Maximum DC input short circuit current per MPPT		30A/15A	
Output (AC)			
Rated power	10000W	12000W	15000W
Max. AC power	11000VA	13200VA	16500VA
Max. Output current	3*16.5A	3*20A	3*24A
Nominal grid voltage		3/N/PE, 220/380Vac, 230/400Vac, 240/415Vac	
Grid voltage range		310Vac-480Vac (According to local standard)	
Nominal frequency		50/60Hz	
Grid Frequency range		45Hz-55Hz/54Hz-66Hz (According to local standard)	
Active power adjustable range		0~100%	
THDi		<3%	
Power factor		>0.99 (adjustable +/-0.8)	
Performance			
Max efficiency		98.3%	
European weighted efficiency		98.0%	
Self-consumption at night		<1W	
MPPT efficiency		>99.9%	
Protection			
DC reverse polarity protection		Yes	
DC switch		Yes	
ARPC		Anti reverse power controller (optional)	
Safety protection		Anti islanding, RCMU, Ground fault monitoring	
Communication			
Power management unit		According to certification and request	
Standard communication mode		RS485, Wifi/Ethernet/GPRS (optional), SD card	
Operation data storage		25 years	
General Data			
Ambient temperature range		-25°C~ +60°C	
Topology		Transformerless	
Degree of protection		IP65	
Allowable relative humidity range		0~100%	
Max. Operating altitude		2000m	
Noise		<45dB	
Weight	23.5kg	23.5kg	25kg
Cooling		Fan	
Dimension		539*452*202mm	
Display		LCD display	
Warranty		5 years/ 7 years/ 10 years	
Standard			
EMC		EN 61000-6-1, EN 61000-6-3	
Safety standards		IEC62109-1/2, IEC62116, IEC61727, IEC-61683, IEC60068(1,2,14,30)	
Grid standards		AS/NZS 4777, VDE-AR-N 4105, CEI 0-21, EN50549, V 0126-1-1, NB/T32004	



SOFAR 10k~20kTL

10000/15000/17000/20000

Three-Phase Dual-MPPT

4"

Super large 4-inch LCD

98.2%

Max. efficiency up to 98.2%

DRM

Built-in DRM port and logic



Smart monitoring, RS485, Wifi/Ethernet/GPRS (optional)



I-V curve scanning function



Built-in SPD, over / under voltage, over current, over temperature, Anti-islanding and other multiple protections

Datasheet	SOFAR 10000TL	SOFAR 15000TL	SOFAR 17000TL	SOFAR 20000TL
Input (DC)				
Recommended Max. PV input power	13300Wp	19950Wp	22610Wp	26600Wp
Max DC power for single MPPT	6750W	10500W	10500W	12000W
Number of MPP trackers	2			
Number for DC inputs	2 for each MPPT			
Max. input voltage	1000V			
Start-up voltage	350V			
Rated input voltage	600V			
MPPT operating voltage range	250V-960V			
Full power MPPT voltage range	350V-850V	370V-850V	420V-850V	430V-850V
Max. input current per MPPT	15A/15A	21A/21A	21A/21A	24A/24A
Maximum DC input short circuit current per MPPT	20A	27A	27A	30A
Output (AC)				
Rated power	10000W	15000W	17000W	20000W
Max. AC power	10000VA	15000VA	17000VA	20000VA
Max. Output current	15A	22A	25A	29A
Nominal grid voltage	3/N/PE, 220/380Vac, 230/400Vac, 240/415Vac			
Grid voltage range	310Vac-480Vac (According to local standard)			
Nominal frequency	50/60Hz			
Grid Frequency range	45Hz-55Hz/54Hz-66Hz (According to local standard)			
Active power adjustable range	0–100%			
THDi	<3%			
Power factor	>0.99 (adjustable +/-0.8)			
Performance				
Max efficiency	98.2%	98.2%	98.2%	98.2%
European weighted efficiency	97.6%	97.9%	97.9%	98.0%
Self-consumption at night	<1W			
MPPT efficiency	>99.9%			
Protection				
DC reverse polarity protection	Yes			
DC switch	Yes			
Protection class/overvoltage category	I/III			
Safety protection	Anti islanding, RCMU, Ground fault monitoring			
ARPC	Anti reverse power controller (optional)			
Input/output SPD (II)	Optional			
Communication				
Power management unit	According to certification and request			
Standard communication mode	RS485, Wifi/Ethernet/GPRS (optional), SD card, Multi-function relay			
Operation data storage	25 years			
General Data				
Ambient temperature range	-25°C ~ +60°C			
Topology	Transformerless			
Degree of protection	IP65			
Allowable relative humidity range	0~100%			
Max. operating altitude	2000m			
Noise	<45dB			
Weight	45kg	45kg	48kg	48kg
Cooling	Natural			
Dimension	709*492*246mm			
Display	LCD display			
Warranty	5 years/ 7 years/ 10 years			
Standard				
EMC	EN 61000-6-1, EN 61000-6-2, EN 61000-6-3, EN 61000-6-4			
Safety standards	IEC62109-1/2, IEC62116, IEC61727, IEC-61683, IEC60068(1,2,14,30), IEC60255			
Grid standards	AS/NZS 4777, VDE V 0124-100, V 0126-1-1, VDE-AR-N 4105, CEI 0-21/CEI 0-16, EN50549, G83/G59, C10/11, Rd1699, UTE C15-712-1, EN50530			



SOFAR 20k~33kTL-G2

20000/ 25000/ 30000/ 33000

Three-Phase Dual-MPPT

4"

Super large 4-inch LCD

1100V

1100V voltage level design

DRM

Built-in DRM port and logic

98.6%

Max. efficiency up to 98.6%



I-V curve scanning function



Built-in SPD, over / under voltage, over current, over temperature, Anti-islanding and other multiple protections

Datasheet

**SOFAR
20000TL-G2**

**SOFAR
25000TL-G2**

**SOFAR
30000TL-G2**

**SOFAR
33000TL-G2**

Input (DC)

Recommended Max. PV input power	26600Wp	33250Wp	39900Wp	43890Wp
Max DC power for single MPPT	13000W	16000W	18000W	20000W
Number of MPP trackers	2			
Number for DC inputs	2 for each MPPT	3 for each MPPT	3 for each MPPT	3 for each MPPT
Max. input voltage	1100V			
Start-up voltage	250V			
Rated input voltage	620V			
MPPT operating voltage range	230V-960V			
Full power MPPT voltage range	480V-850V	460V-850V	520V-850V	580V-850V
Max. input MPPT current	24A/24A	28A/28A	30A/30A	30A/30A
Maximum DC input short circuit current per MPPT	30A	35A	37.5A	37.5A

Output (AC)

Rated power	20000W	25000W	30000W	33000W
Max. AC power	22000VA	27500VA	33000VA	36300VA
Max. Output current	32A	40A	48A	53A
Nominal grid voltage	3/N/PE, 220/380Vac, 230/400Vac, 240/415Vac			
Grid voltage range	310Vac-480Vac (According to local standard)			
Nominal frequency	50/60Hz			
Grid Frequency range	45Hz-55Hz/54Hz-66Hz (According to local standard)			
Active power adjustable range	0~100%			
THDi	<3%			
Power factor	>0.99 (adjustable +/-0.8)			

Performance

Max efficiency	98.2%	98.4%	98.4%	98.6%
European weighted efficiency	98.0%	98.2%	98.2%	98.2%
Self-consumption at night	<1W			
MPPT efficiency	>99.9%			

Protection

DC reverse polarity protection	Yes
DC switch	Yes
Protection class/ overvoltage category	I/III
Safety protection	Anti islanding, RCMU, Ground fault monitoring
ARPC	Anti reverse power controller (optional)

Communication

Power management unit	According to certification and request
Standard communication mode	RS485, Wifi/Ethernet/GPRS(optional), SD card
Operation data storage	25 years

General Data

Ambient temperature range	-25°C~ +60°C			
Topology	Transformerless			
Degree of protection	IP65			
Allowable relative humidity range	0~100%			
Max. operating altitude	2000m			
Noise	<30dB	<45dB	<45dB	<45dB
Weight	37kg			
Cooling	Natural	Fan	Fan	Fan
Dimension	666*512*254mm			
Display	LCD display			
Warranty	5 years/ 7 years/ 10 years			

Standard

EMC	EN 61000-6-2, EN 61000-6-3, EN 61000-3-11, EN 61000-3-12
Safety standards	IEC62109-1/2, IEC62116, IEC61727, IEC-61683, IEC60068(1,2,14,30), IEC60255
Grid standards	AS/NZS 4417, VDE V 0124-100, V 0126-1-1, VDE-AR-N 4105, CEI 0-21/CEI 0-16, EN 50549, G59, P.O. 12.3, RD1699, UTE C15-712-1, EN 50530, NB/T32004



SOFAR 30k~40kTL

30000/ 33000/ 36000/ 40000

Three-Phase Dual-MPPT

-  Super large 4-inch LCD
-  Fuse free design
-  Outdoor IP65 protection level
-  I-V curve scanning function
-  Max. efficiency up to 98.7%
-  Support Modbus communication, external Wifi/ Ethernet/ GPRS (optional)

Datasheet	SOFAR 30000TL	SOFAR 33000TL	SOFAR* 36000TL	SOFAR 40000TL
Input (DC)				
Recommended Max. PV input power	39900Wp	43890Wp	47880Wp	53200Wp
Max DC power for single MPPT	15360W	17000W	20400W	20400W
Number of MPP trackers	2			
Number for DC inputs	4 for each MPPT			
Max. input voltage	1000V			
Start-up voltage	350V			
Rated input voltage	600V	600V	600V	700V
MPPT operating voltage range	250V-960V			
Full power MPPT voltage range	480V-800V	480V-800V	500V-800V	560V-800V
Max. input MPPT current	32A/32A	35A/35A	38A/38A	35A/35A
Max. input current per string	12A			
Maximum DC input short circuit current per MPPT	40A	40A	42A	40A
Output (AC)				
Rated power	30000W	33000W	36000W	40000W
Max. AC power	30000VA	33000VA	36000VA	40000VA
Max. Output current	43A	48A	54A	48A
Nominal grid voltage	3/N/PE, 220/380Vac, 230/400Vac, 240/415Vac			3/N/PE or 3/PE, 277/480Vac
Grid voltage range	310Vac-480Vac (According to local standard)		422Vac-528Vac (According to local standard)	
Nominal frequency	50/60Hz			
Grid Frequency range	45Hz-55Hz/54Hz-66Hz (According to local standard)			
Active power adjustable range	0~100%			
THDi	<3%			
Power factor	>0.99 (adjustable +/-0.8)			
Performance				
Max efficiency	98.5%	98.5%	98.5%	98.7%
European weighted efficiency	98.2%	98.2%	98.2%	98.4%
Self-consumption at night	<1W			
MPPT efficiency	>99.9%			
Protection				
DC reverse polarity protection	Yes			
DC switch	Yes			
Protection class/ overvoltage category	I/III			
Safety protection	Anti islanding, RCMU, Ground fault monitoring			
ARPC	Anti reverse power controller (optional)			
Input/output SPD (II)	Optional			
Communication				
Power management unit	According to certification and request			
Standard communication mode	RS485, Wifi/Ethernet/GPRS (optional), SD card, Multi-function relay			
Operation data storage.	25 years			
General Data				
Ambient temperature range	-25°C~ +60°C			
Topology	Transformerless			
Degree of protection	IP65			
Allowable relative humidity range	0~100%			
Max. operating altitude	2000m			
Noise	<30dB	<45dB	<45dB	<45dB
Weight	50kg			
Cooling	Natural	Fan	Fan	Fan
Dimension	774*564*298mm			
Display	LCD display			
Warranty	5 years/ 7 years/ 10 years			
Standard				
EMC	EN 61000-6-2, EN 61000-6-4			
Safety standards	IEC62109-1/2, IEC62116, IEC61727, IEC-61683, IEC60068(1,2,14,30)			
Grid standards	AS/NZS 4777, AS/NZS 61000, VDE V 0124-100, V 0126-1-1, VDE-AR-N 4105, CEI 0-21/CEI 0-16, EN50549, G59, Rd1699, UTE C15-712-1, EN50530			

The models marked with "*" should be available only for some designated countries.






SOFAR 50k~70kTL

50000/ 60000/ 70000

Three-Phase

-  Super large 4-inch LCD
-  Outdoor IP65 protection level
-  Sound and light alarm function
-  DC SPD Class 2, over/under voltage, over current, over temperature, Anti-islanding and other multiple protections

Three-MPPT

-  Fuse free design
-  Built-in DRM port and logic
-  Max. efficiency up to 98.6%

Datasheet	SOFAR 50000TL	SOFAR 60000TL	SOFAR 70000TL-HV
Input (DC)			
Recommended Max. PV input power	66500Wp	79800Wp	93100Wp
Max DC power for single MPPT	22000W	22000W	26000W
	16000W	22000W	26000W
	16000W	22000W	26000W
Number of MPP trackers		3	
Number for DC inputs	4/3/3	4/4/4	4/4/4
Max. input voltage		1000V	
Start-up voltage		350V	
Rated input voltage	600V	600V	700V
MPPT operating voltage range		250V-950V	
Full power MPPT voltage range	530V-800V	530V-800V	660V-800V
Max. input MPPT current	40A/30A/30A	40A/40A/40A	40A/40A/40A
Max. input current per string		12A	
Maximum DC input short circuit current per MPPT	48A/36A/36A	48A	48A
Output (AC)			
Rated power	50000W	60000W	70000W
Max. AC power	50000VA	60000VA	75000VA
Max. Output current	80A	90A	90A
Nominal grid voltage	3/N/PE, 220/380Vac, 230/400Vac, 240/415Vac		3/N/PE or 3/PE, 277/480Vac
Grid voltage range	310Vac-480Vac (According to local standard)		422Vac-528Vac (According to local standard)
Nominal frequency		50/60Hz	
Grid Frequency range		45Hz-55Hz/54Hz-66Hz (According to local standard)	
Active power adjustable range		0-100%	
THDi		<3%	
Power factor		>0.99 (adjustable +/-0.8)	
Performance			
Max efficiency	98.5%	98.6%	98.6%
European weighted efficiency	98.3%	98.4%	98.4%
Self-consumption at night		<1W	
MPPT efficiency		>99.9%	
Protection			
DC reverse polarity protection		Yes	
DC switch		Yes	
Protection class/ overvoltage category		I/III	
Input/ output SPD(III)		PV: type II standard, AC: type II optional	
Safety protection		Anti islanding, RCMU, Ground fault monitoring	
ARPC		Anti reverse power controller (optional)	
Communication			
Power management unit		According to certification and request	
Standard communication mode		RS485, Wifi/Ethernet/GPRS(optional), SD card, Multi-function relay	
Operation data storage		25 years	
General Data			
Ambient temperature range		-25°C~ +60°C	
Topology		Transformerless	
Degree of protection		IP65	
Allowable relative humidity range		0-100%	
Max. operating altitude		4000m	
Noise		≤60dB	
Weight	68kg	70kg	70kg
Cooling		Fan	
Dimension		713*737*297mm	
Display		LCD display	
Warranty		5 years/ 7 years/ 10 years	
Standard			
EMC		EN 61000-6-2, EN 61000-6-4, EN 61000-3-11, EN 61000-3-12	
Safety standards		IEC62109-1/2, IEC62116, IEC61727, IEC-61683, IEC60068(1,2,14,30)	
Grid standards		AS/NZS 4777, VDE V 0124-100, V 0126-1-1, VDE-AR-N 4105, BDEW, CEI 0-21/CEI 0-16, UNE 206 007-1, EN50549, G59, EN50530, NB/T32004	











SOFAR

80K~136KTL

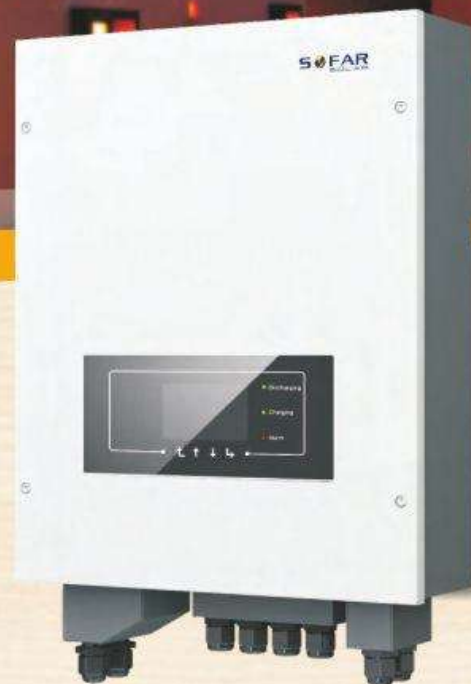
80KTL/100KTL/110KTL/100KTL-HV/125KTL-HV/136KTL-HV

Three-Phase

Eight to twelve MPPTs

-  Max. efficiency up to 99%
-  Outdoor IP66 protection level
-  Type II SPD for both DC and AC
-  Support Modbus communication, external Wifi/ PLC/ GPRS (optional)
-  AC / DC dual power supply redundant design, 24-hour status monitoring
-  Remote firmware upgrade
-  I-V curve scanning function
-  Maximum 12 MPP trackers with 1.5* DC overload

Datasheet	SOFAR 80KTL	SOFAR 100KTL	SOFAR 110KTL	SOFAR 100KTL-HV	SOFAR 125KTL-HV	SOFAR 136KTL-HV
Input (DC)						
Max. input voltage				1100V		
Rated input voltage	600V	600V	600V	680V	680V	680V
Start-up voltage				200V		
MPPT operating voltage range				180V-1000V		
Full power MPPT voltage range	500V-850V	500V-850V	500V-850V	550V-850V	550V-850V	550V-850V
Number of MPP trackers	8	10	10	10	10	12
Number for DC inputs	16	20	20	20	20	24
Max. input current per MPPT				26A		
Max. input short circuit current per MPPT				40A		
Output (AC)						
Rated power	80kW	100kW	110kW	100kW	125kW	136kW
Max. AC power	88kVA	110kVA	121kVA	110kVA	137kVA	150kVA
Max. output current	128A	160A	175A	128A	160A	160A
Nominal grid voltage	3/N/PE, 230V/400Vac, 220V/380Vac			3/PE, 288V/500Vac	3/PE, 288V/500Vac	3/PE, 311V/540Vac
Grid voltage range	310Vac-480Vac	310Vac-480Vac	310Vac-480Vac	400Vac-575Vac	400Vac-575Vac	432Vac-621Vac
Nominal frequency	50/60Hz					
Grid frequency range	45Hz-55Hz/54Hz-66Hz (According to local standard)					
Active power adjustable range	0~100%					
THDi	<3%					
Power factor	1default (adjustable+/-0.8)					
Performance						
Max. Efficiency	98.60%	98.70%	98.75%	98.80%	99.00%	99.00%
European weighted efficiency	98.20%	98.30%	98.40%	98.50%	98.50%	98.51%
MPPT efficiency	>99.9%					
Protection						
DC reverse polarity protection	Yes					
Anti-islanding protection	Yes					
Leakage current protection	Yes					
Ground fault monitoring	Yes					
PV-array string fault monitoring	Yes					
Zero voltage ride through	Yes					
DC switch	Yes					
Anti-PID protection	Optional					
AFCI	Optional					
Protection class/ Overvoltage category	I/III					
Input/ Output SPD	PV: type II standard, AC: type II standard					
Communication						
Power management unit	According to certification and request					
Communication	RS485, Optional: WiFi /GPRS /PLC					
Operation data storage	25 years					
General Data						
Ambient temperature range	-30°C ~ +60°C					
Topology	Transformerless					
Degree of protection	IP66					
Allowable relative humidity range	0~100%					
Max. operating altitude	4000m					
Noise	≤60 dB					
Weight	85kg	90kg	90kg	85kg	90kg	92kg
Cooling	Smart forced air cooling					
Dimension	1051*660*340mm					
Display	LCD&Bluetooth+APP					
Warranty	5 years/ 7 years/ 10 years					
Standard						
EMC	EN 61000-6-2, EN 61000-6-4					
Safety standard	IEC62109-1/2, IEC62116, IEC61727, IEC-61683, IEC60068(1,2,14,30)					
Grid standard	AS/NZS 4777, VDE V 0124-100, V 0126-1-1, VDE-AR-N 4105, CEI 0-21/CEI 0-16, UNE 206 007-1, EN50549, G99, EN50530, NB/T32004					



ME 3000SP

3KW AC

Coupled energy storage inverter



A variety of work modes are optional



LCD+LED – human friendly-machine interface



Outdoor IP65 design



Smart battery energy management system



Compatible with other brands of inverter



Flexible configuration of lead acid or lithium battery



Integrated fanless self-recognition heat dissipation design

Datasheet

ME 3000SP

Battery Parameters

Battery Type	Lithium-ion, Lead-acid
Nominal battery voltage	48V
Battery voltage range	42-58V
Recommended battery capacity	200Ah (100~500Ah optional)
Recommended storage capacity	9.6kWh
Max. Charging current	60A
Charging current range	0-60A (Programmable)
Charging curve	3-Stage adaptive with maintenance
Max. Discharging current	60A
Electronic protection	OCP OTP OVP
Short circuit protection	Fuse (100A)
Discharge times (Hour)	P ₀ =1kVA9.6h
	P ₀ =3kVA3.2h
Depth of discharge	Lithium-ion: 0-80% DOD adjustable
	Lead-acid: 0-50% DOD adjustable

AC Parameters

Max. Output power	3kVA
Rated Input/ Output voltage	230V
Max. Input/ Output current	13A
AC Input/ Voltage range	180V-270V
Grid frequency range	44~55Hz / 54~66Hz
THD	<3%
Power factor	1 default (+/-0.8 adjustable)
Connection phase	Single
Current (inrush)	0.8A/ 1us
Maximum output fault current	100A/ 1us
Maximum output over current protection	13A

System Parameters

Max. Charging efficiency	>95%
Max. Discharging efficiency	>95%
Standby losses	<5W
Topology	High frequency isolated transformer
Degree of protection	IP65
Safety protection	Anti islanding, RCMU, Ground fault monitoring
Communication	RS485, Wifi/Ethernet/GPRS, CAN2.0
SPD protection	III

Environmental

Ambient temperature range	-25°C~ +60°C (Above 45°C Derating)
Allowable relative humidity range	0~100%
Protective class	Class I
Max. Operating altitude	2000m
Current sensor connection	External

Emergency Power Supply

EPS rated power	3000VA
EPS rated voltage, Frequency	230V, 50/60Hz
EPS rated current	13A
Total harmonic distortion	<3%
Switch time	<3s

General Data

Noise	<25dB
Weight	16kg
Cooling	Natural
Dimension (W*H*D)	530*360*173mm
Display	LCD display
Warranty	5 Years (Optional: Extension to 10 years)

Standard

EMC	EN 61000-6-1, EN 61000-6-2, EN 61000-6-3, EN 61000-6-4
Safety standards	IEC62109-1/2, IEC62040-1
Grid standards	AS/NZS 4777, AS/NZS 62040, VDE V 0124-100, V 0126-1-1, VDE-AR-N 4105, CEI 0-21, EN50549, G83/G98, UTE C15-712-1





HYD 3k~6k-ES

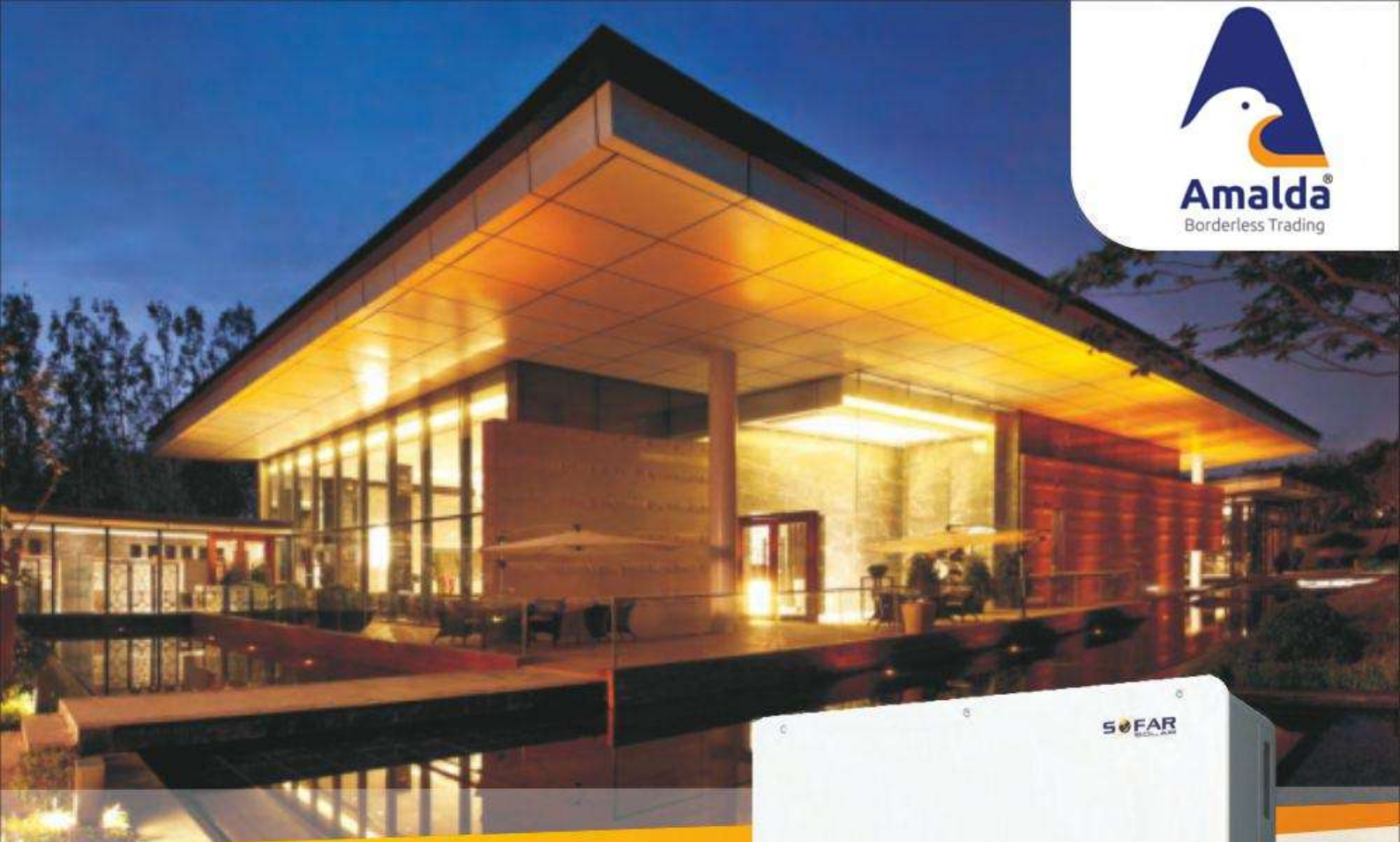
3000/3600/4000/4600/5000/6000

Single-Phase Energy storage integrated inverter



-  Outdoor IP65 design
-  A variety of work modes are optional
-  Built-in zero export function
-  Integrated fanless self-recognition heat dissipation design
-  Compatible with on grid and off grid
-  EPS function, switching time is less than 10ms
-  Flexible configuration of lead acid or lithium battery

Datasheet	HYD 3000-ES	HYD 3600-ES	HYD 4000-ES	HYD * 4600-ES	HYD 5000-ES	HYD 6000-ES
Battery Parameters						
Battery Type	Lithium-ion, Lead-acid					
Nominal battery voltage	48V					
Battery voltage range	42-58V					
Battery Capacity	50-2000Ah					
Maximum Charging / Discharging Power	3000W					
Maximum Charging Current	65A (Programmable)					
Maximum Discharging Current	70A (Programmable)					
Charging curve(Lithium-ion)	BMS					
Charging curve(Lead-acid)	3-Stage adaptive with maintenance					
Depth of discharge	Lithium-ion: 0-90% DOD adjustable, Lead-acid: 0-50% DOD adjustable					
Input DC(PV side)						
Recommended Max. PV input power	3990Wp	4790Wp	5320Wp	6120Wp	6650Wp	7980Wp
Max DC power for single MPPT	2000W	2400W	2600W	2800W	3000W	3500W
Max. input voltage	600V					
Start-up voltage	120V					
Nominal DC Voltage	360V					
MPPT operating voltage range	90-580V					
Full power MPPT voltage range	160V-520V	180V-520V	200V-520V	230V-520V	250V-520V	300V-520V
MPPT number	2					
The max DC input current	12A/12A					
The max DC input short current	15A/15A					
Output AC(Grid side)						
Rated Power	3000W	3680W	4000W	4600W	5000W	6000W
Max. Output Power	3000VA	3680VA	4000VA	4600VA	5000VA	6000VA
Nominal Grid Voltage	L/N/PE, 220, 230, 240					
Operation phase	Single (L-N-PE)					
Max. Input / Output current	13.7A	16A	18.2A	21.0A	22.8A	27.3A
AC voltage Range	180V-276V (According to local standard)					
Grid Frequency range	44-55Hz/54-66Hz (According to local standard)					
THD	<3%					
Power factor	1 default (+/-0.8 adjustable)					
Output AC(Emergency Power Supply)						
EPS rated power	3000VA					
Operation phase	Single (L-N-PE)					
EPS rated voltage, Frequency	230V, 50/60Hz					
EPS rated current	13.2A					
Peak Output Apparent Power	4000VA, 10s					
THD	<3%					
Switch time	10ms default					
Efficiency						
MPPT efficiency	99.9%					
Max efficiency of solar Inverter	97.6%	97.6%	97.6%	97.8%	97.8%	98.0%
European efficiency of solar Inverter	97.2%	97.2%	97.2%	97.3%	97.3%	97.5%
Max. Charging efficiency of battery	94.6%					
Max. DisCharging efficiency of battery	94.6%					
Protection						
PV reverse polarity protection	Yes					
PV insulation detection	Yes					
Ground fault monitoring	Yes					
Over current protection	Yes					
Over voltage protection	Yes					
Battery soft start protection	Yes					
SPD protection	III					
General Data						
Ambient temperature range	-25°C~+60°C (Above 45°C Derating)					
Standby Losses	< 10W					
Topology	High frequency insulation (for bat)					
DC-Switch	Yes					
Degree Of Protection	IP65					
Allowable Relative Humidity Range	0-100%					
Communication	RS485, Wifi/Ethernet/GPRS, SD, CAN2.0					
Protective class	Class I					
Max. Operating Altitude	2000m					
Current Sensor Connection	External					
Noise	<25dB					
Weight	20.5kg					
Cooling	Natural					
Dimension (W*H*D)	566*394*173 mm					
Display	LCD display					
Warranty	5 Years or more					
Standard						
EMC	EN 61000-6-2, EN 61000-6-3, EN 61000-3-2, EN 61000-3-3, EN 61000-3-11, EN 61000-3-12					
Safety standards	IEC62109-1/2, IEC62040-1, IEC62116, IEC61727, IEC-61683, IEC60068(1,2,14,30)					
Grid standards	AS/NZS 4777, VDE V 0124-100, V 0126-1-1, VDE-AR-N 4105, CEI 0-21, EN50549, G83/G59/G98/G99, UTE C15-712-1, UNE 206 007-1					
The models marked with "*" should be available only for some designated countries.						



HYD 5K~20KTL-3PH

5000/6000/8000/10000/15000/20000

Three-Phase Energy storage integrated inverter



2 MPPT inputs, more flexible configuration



Maximum two battery inputs



Diversified work patterns and rapid gains



Full digital control, higher control accuracy



Multiple parallel systems, more flexible system solutions



Off-grid output can be connected to unbalanced load, three-phase separate output is supported

Datasheet

HYD 5KTL-3PH HYD 6KTL-3PH HYD 8KTL-3PH HYD 10KTL-3PH HYD 15KTL-3PH HYD 20KTL-3PH

Battery Input Data

Battery type	Li-Ion					
No. of battery input	1	1	1	2	2	2
Battery voltage range	180V-800V					
Battery voltage range for full load	200V-800V	240V-800V	320V-800V	200V-800V	300V-800V	400V-800V
Nominal charging/discharging power	5000W	6000W	8000W	10000W	15000W	20000W
Max. charging/discharging current	25A	25A	25A	50A(25A/25A)	50A(25A/25A)	50A(25A/25A)
Peak charging/discharging current, Duration	40A, 60s	40A, 60s	40A, 60s	70A(35A/35A), 60s	70A(35A/35A), 60s	70A(35A/35A), 60s
Charging strategy for battery	Self-adaption to RMS					
Battery capacity	25Ah-100Ah					
Communication interfaces	CAN(RS485)					

PV String Input Data

Recommended Max. PV input power	7500Wp(6000Wp/6000Wp)	9000Wp(6600Wp/6600Wp)	12000Wp(6600Wp/6600Wp)	15000Wp(7500Wp/7500Wp)	22500Wp(11250Wp/11250Wp)	30000Wp(15000Wp/15000Wp)
Max. DC voltage	1000V					
Start-up operating voltage	200V					
MPPT voltage range	180V-960V					
Nominal DC voltage	600V					
Full power MPPT voltage range	250V-850V	320V-850V	360V-850V	220V-850V	350V-850V	450V-850V
Max. input current	12.5A/12.5A	12.5A/12.5A	12.5A/12.5A	25A/25A	25A/25A	25A/25A
Max. short current	15A/15A	15A/15A	15A/15A	30A/30A	30A/30A	30A/30A
No. of MPP trackers	2					
No. of strings per MPP tracker	1	1	1	2	2	2

AC Output Data (On-grid)

Nominal AC power	5000W	6000W	8000W	10000W	15000W	20000W
Max. AC power output to utility grid	5500VA	6600VA	8800VA	11000VA	16500VA	22000VA
Max. AC power from utility grid	10000VA	12000VA	16000VA	20000VA	30000VA	40000VA
Max. AC current output to utility grid	8A	10A	13A	16A	24A	32A
Max. AC current from utility grid	15A	17A	24A	29A	44A	58A
Nominal grid voltage	3/N/PE, 220/380Vac, 230/400Vac					
Grid voltage range	184Vac-276Vac					
Nominal grid frequency	50/60Hz					
Grid frequency range	45Hz-55Hz/55Hz-65Hz					
Output power factor	~1(0.8 leading to 0.8 lagging)					
Output THDi (@Nominal output)	< 3%					

AC Output Data (Back-up)

Nominal output power	5000W	6000W	8000W	10000W	15000W	20000W
Max. output power	5500VA	6600VA	8800VA	11000VA	16500VA	22000VA
Peak output power, Duration	10000VA, 60s	12000VA, 60s	16000VA, 60s	20000VA, 60s	22000VA, 60s	22000VA, 60s
Max. output current	8A	10A	13A	16A	24A	32A
Peak output current, Duration	15A, 60s	18A, 60s	24A, 60s	30A, 60s	32A, 60s	32A, 60s
Nominal output voltage	3/N/PE, 220/380Vac, 230/400Vac					
Nominal output frequency	50/60Hz					
Output THDv (@Liner load)	< 3%					
Switch time	< 15ms					

Efficiency

MPPT efficiency	99.9%					
Euro efficiency	97.5%	97.5%	97.5%	97.7%	97.7%	97.7%
Max. efficiency	98.0%	98.0%	98.0%	98.2%	98.2%	98.2%
Max. battery charge/discharge efficiency	97.6%	97.6%	97.6%	97.8%	97.8%	97.8%

Protection

DC switch	Yes					
PV reverse polarity protection	Yes					
Output over current protection	Yes					
Output over voltage protection	Yes					
Anti-islanding protection	Yes					
Residual current detection	Yes					
Insulation resistor detection	Yes					
Surge protection level	II					
Battery reverse protection	Yes					

General Data

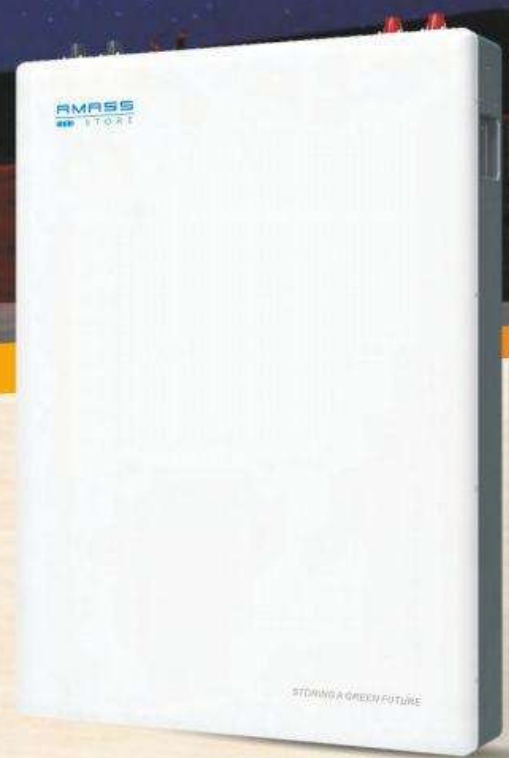
Dimension	571.4*515*264.1mm					
Weight	33kg	33kg	33kg	37kg	37kg	37kg
Inverter topology	Transformerless					
Standby self-consumption	< 10W					
Operating temperature range	-30°C~+60°C					
Relative humidity	0-100%					
Noise	< 45dB					
Operating altitude	< 4000m					
Cooling	Natural	Natural	Natural	Forced airflow	Forced airflow	Forced airflow
Protection degree	IP65					

Feature

DC terminal	MC4					
Grid AC terminal	5P Connector					
Back-up AC terminal	5P Connector					
Display	LCD Display					
Monitoring interfaces	Bluetooth / RS485 / WIFI / GPRS (optional)					
Parallel operation	Yes					
Standard warranty	Standard 5 years					

Certifications & Standards

EMC	EN61000-6-1, EN61000-6-3					
Safety	IEC62109-1, IEC62109-2, NB-T32004/IEC62040-1					
Grid	AS/NZS 4777, VDE V 0124-100, V0126-1-1, VDE-AR-N 4105, CEI 0-16/CEI 0-21, EN50549, G98/G99, UTE C15-712-1					



AMASS STORE BATTERY

GTX2000

-  Multi-level energy management, longer battery life
-  One-button switch machine, more convenient operation
-  Modular, ultra-thin wall hanging design, convenient installation
-  Multiple parallel support, high current charge and discharge
-  High BMS compatibility, perfect match of energy storage inverter
-  The adoption of high-performance processors, international brand devices, better stability

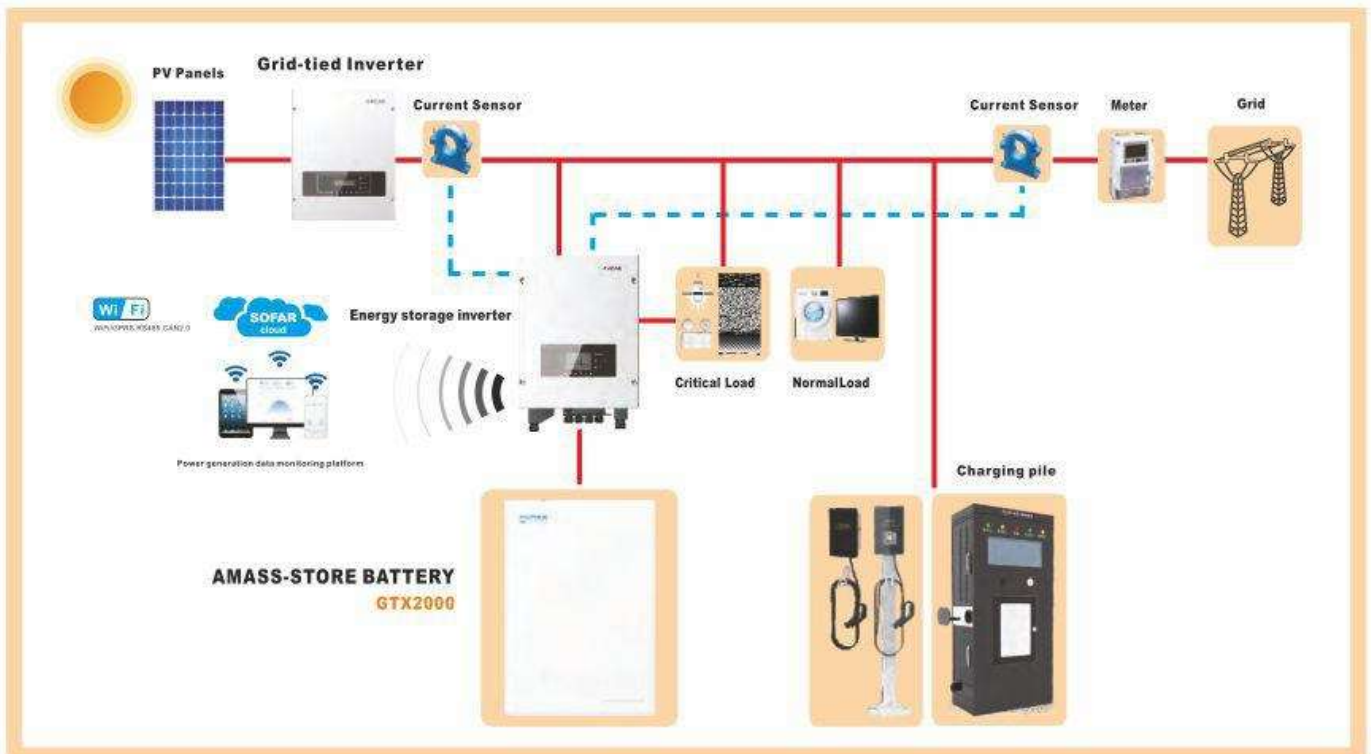
Datasheet

GTX2000

Basic Parameters

Total energy	2400Wh
Usable energy	2000Wh
Nominal voltage	48.0V
Depth of discharge (DOD)	80%
Cycle life (80%DOD)	> 6000, 25°C
Design life	10+ Years(25 °C 77°F)
Discharge voltage	45V ~ 54.0V
Charge voltage	51.5V ~ 54.0V
Cont. Charge current	25A
Max. Charge current	25A
Cont. Discharge current	50A
Max. Discharge current	65A
Communication port	CANbus 2.0B+RS485
Storage temperature	5°C ~ +45°C
Altitude	<4000m
Humidity	10%~90%
Scalable	Up to 4 units
Installation method	Wall-mounted
Protection rating	IP20
Operating temperature	-10°C~+50°C (discharge) 0°C~+50°C (charge)
Weight	31kg
Dimension	95mm*450mm*640mm
Certificates	CE / IEC62619 / RCM / SAA









AC Coupled Solar System





AMASS STORE BATTERY

GTX2500

-  Compatible with multi-brand storage inverters
-  Remote diagnosis and real-time data monitoring
-  Supports parallel expansion, supports up to 4 parallels
-  Certification of IEC62619, UN38.3, IEC62040-1, SAA etc
-  Long cycle life energy storage battery (6000 times)
-  Simple stack installation, time and cost saving
-  Han's Laser automated PACK production line, stable and reliable production quality
-  One-button automatic assignment battery module ID, simple and convenient operation

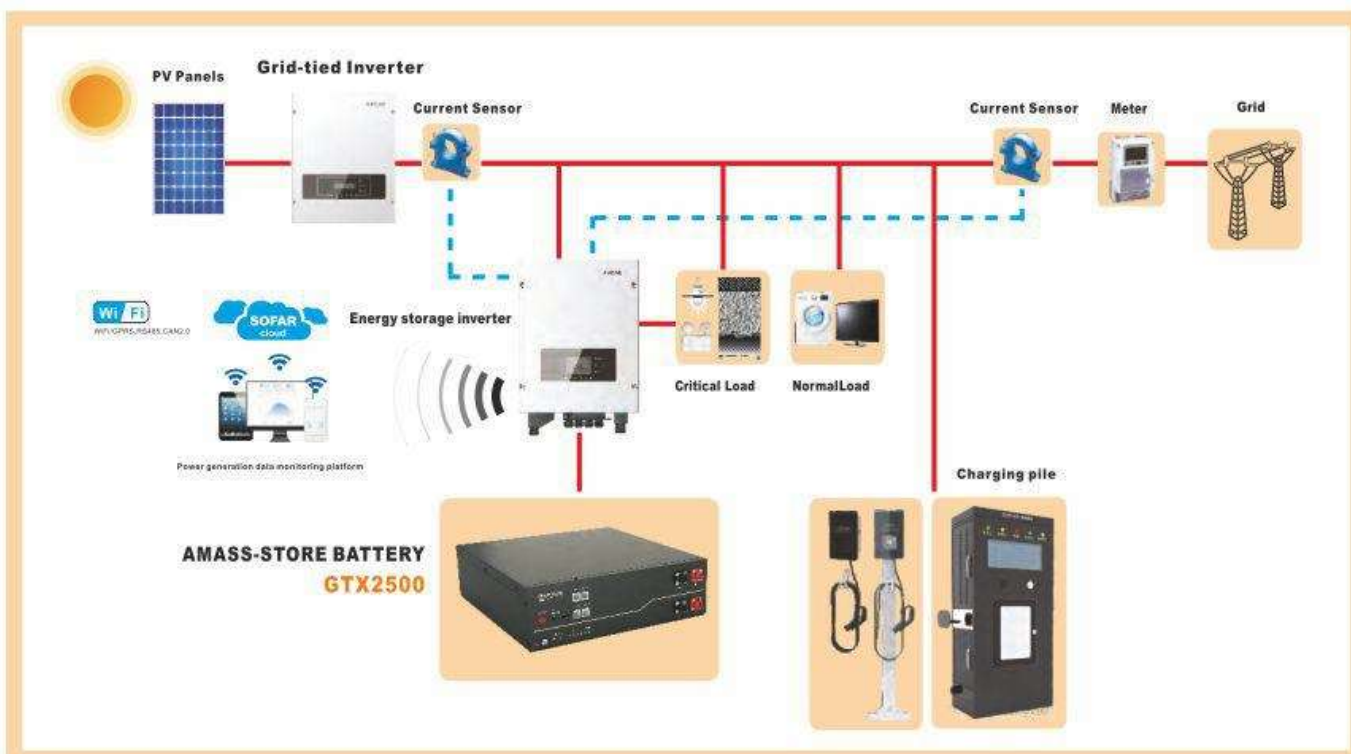
Datasheet

GTX2500

Basic Parameters

Nominal Capacity (Ah)	50AH
Nominal Voltage (V)	51.2Vdc
Total Energy	2500Wh
Usable Energy (90% DOD)	2250Wh
Charge Voltage (V)	55.68~56.16Vdc
Discharge Voltage (V)	45.6~56.16Vdc
Nominal Charge Current (A)	25A
Max. Charge Current (A)	30A
Nominal Discharge Current (A)	25A
Max. Discharge Current (A)	30A (1.5 kW)
Communication	RS232, RS485, CAN
Working Temperature	-20 °C~ 60°C
Storage Temperature	≤ 25°C, 12 months
	≤ 35°C, 6 months
	≤ 45°C, 3 months
Operating Humidity	< 95% RH
Storage Humidity	< 95% RH
Max. Operating Altitude	≤ 2000m
Scalable	Up to 4
Enclosure Protection Rating	IP20
Net Weight	27Kg
Dimension	400mm*417mm*120mm
Certification	IEC62619, UN38.3, IEC62040-1, SAA etc.
Cycle Life	6000 Cycles@ 80% DOD / 25°C / 0.5C, 60% EOL

AC Coupled Solar System





Inverter Logger

GPRS / WCDMA



- ▶ Ensure completeness of collected data
- ▶ Realtime alerts with immediate notification for fast troubleshooting
- ▶ Industrial-level SIM chip integrated for stable operation and high performance
- ▶ Suitable for rural areas where no network connection is available
- ▶ High network coverage around the world
- ▶ Devices could be upgraded and debugged remotely for easy maintenance
- ▶ Quick installation and easy operation with “Plug & Play” function
- ▶ Check the system status anytime and anywhere via online portal or app, no additional software required

Datasheet

LIG-1

General

	Basic ver.: 1
	Advanced ver.: 1-4
	Professional ver.: 1-10
Max. number of inverters	*For inverters with RS232, each data logger can only Support one inverter at a time

Inverter communication RS485/422/232(Optional)

Remote communication GSM

Electrical

Communication rate 1200-57600bps (Adjustable)

Frequency 850/1900/1800/1900MHz

Wireless communication range

Transmitting power 3W (Max) / 1W (Min)

Data collection intervals 5 minutes (Default) / 1-15 minutes (Optional)

Preference setting Serial port AT instruction

Data access 485/422 Remote server

Status display 4 LEDs

Memory 2M Flash(Default) / 512k-16M BYTE Flash(Optional)

Input voltage DC 5.0V(+/-5%)

Static power consumption <3W

Max. instantaneous power consumption 3W

Operating temperature -25°C~ +65°C

Operating humidity 10%-90% Relative humidity, no condensation

Status display 4 LEDs

Storage temperature -25°C~ +65°C

Storage humidity <40%

Protection class IP21

Physical

Dimension 110*80*24mm

Weight 102g

Installation Wall mounted or flatwise



AMASS STORE BATTERY

GTX5000

-  Compatible with multi-brand storage inverters
-  Remote diagnosis and real-time data monitoring
-  Supports parallel expansion, supports up to 4 parallels
-  Certification of IEC62619, UN38.3, IEC62040-1, SAA etc
-  CATL brand battery, long cycle life (6000 times)
-  Wall-mounted or floor-mounted installation, time and cost saving
-  Han's Laser automated PACK production line, stable and reliable production quality
-  One-button automatic assignment battery module ID, simple and convenient operation

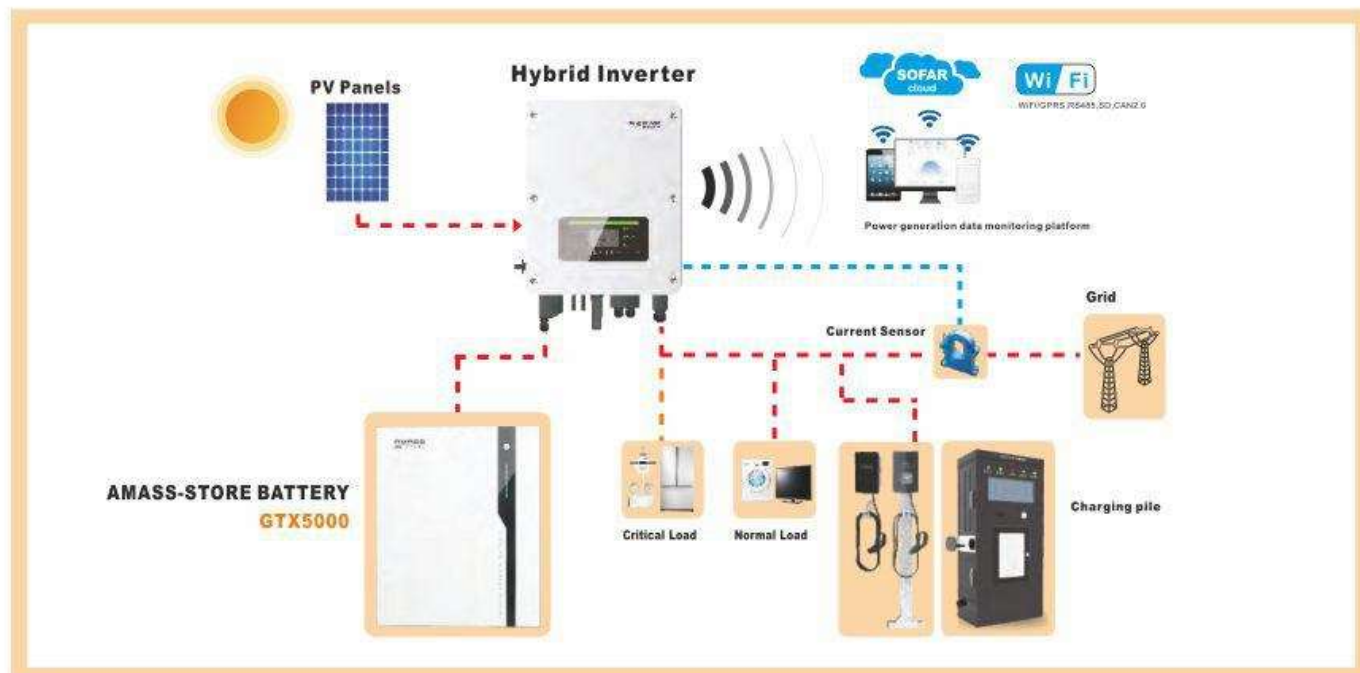
Datasheet

GTX5000

Basic Parameters

Nominal Capacity	100AH
Nominal Voltage	51.2Vdc
Nominal Energy	5120Wh
Usable Energy (90% DOD)	4600Wh
Charge Voltage	55.68~56.16Vdc
Discharge Voltage	45.6~56.16Vdc
Nominal Charge Current	50A
Max. Charge Current	50A
Nominal Discharge Current	50A
Max. Discharge Current	75A (3.5 kW)
Communication	RS232, RS485, CAN
Working Temperature	-20 °C~ 60°C
Storage Temperature	≤ 25°C, 12 months
	≤ 35°C, 6 months
	≤ 45°C, 3 months
Operating Humidity	< 95% RH
Storage Humidity	< 95% RH
Max. Operating Altitude	≤ 2000m
Scalable	Up to 4
Degree Of Protection	Ip20
Weight	55Kg
Dimension (W*D*H)	480mm*211.5mm*600mm
Certificates	IEC62619, UN38.3, IEC62040-1, SAA etc
Cycle Life	6000 Cycles@ 80% DOD / 25°C / 0.5C, 60% EOL

Hybrid Solar System





Stick Logger

GPRS / WIFI / 4G / ETHERNET / NB-IOT

- ▶ External light indicator, logging status at a glance
- ▶ External design, easier to replace faulty equipment
- ▶ IP65 water-proof design, resistant to bad weather, enhance stability
- ▶ Plug and play, pick power within inverter, no external power needed, easy to install
- ▶ Independent from inverter to protect parts inside inverter, eliminate potential problems
- ▶ End-user can monitor yields at any time with SOLARMAN APP



Datasheet	LSG-3	LSG-4	LSW-3	LS4G-3	LSE-3
Remote communication interface	GPRS	GPRS	WiFi	4G	LAN
Working frequency	GSM850/EGSM900 /DCS1800/ PCS1900MHz	GSM850/EGSM900 /DCS1800/ PCS1900MHz	2.142GHz~ 2.484GHz	704~960MHz 1710~2690MHz	Adaptive Network 10M/ 100M
Satellite positioning	-	GPS/ Beidou < 15m	-	-	-
Antenna	External GPRS Stick Antenna	External GPRS Stick Antenna	External WiFi Stick Antenna	External 4G Stick Antenna	-
Data interface	RS232				
Working voltage	DC4.7V ~ DC15V				
Working power	3W	3W	1.5W	5W	1W
SIM card	Chip card/MicroSIM	Chip card/MicroSIM	-	MicroSIM	-
Mermory	2M Flash (2M-16M Optional)				
Working temperature	-40°C~ +85°C				
Working humidity	< 90% (No Condensing)				
No. of connections	One				
Serial communication rate	bps (1200-115200bps Configurable)				
Data acquisition interval	Default 5min (1-15min Configurable)				
Use configuration	Bluetooth	APP/Web	APP/Web	Local serial port	Web
Firmware upgrade	Remote Upgrade				
Others	Real-time Control, Data resuming				



Pro Logger

GPRS / WIFI / 4G / ETHERNET

- ▶ Multi-interfaces: RS485, RS232, RS422, CAN; supports connection of P1 meter;
- ▶ Support magnetic latching relay controlling 250VAC/16A circuit externally;
- ▶ Standard accessory: 8GB TF card; supports 20-year storage; data in Solarman platform will be saved permanently;
- ▶ Support multi-channel digital/analog input interface; support grid dispatching, sensor and multi-scenarios;
- ▶ SOLARMAN Pro version supports intelligent plant management.
- ▶ Dual SIM chips, supporting on-grid project that requires private network power supply;
- ▶ Support static page configuration or upgrade, local/remote multi-mode monitoring;
- ▶ Support importing data and error history via USB;
- ▶ Embedded super capacitor supports power-off reminder; Simplify plant O&M significantly;

Datasheet

LP-1

LP-2

Wireless Parameters

Remote Communication 1	GPRS	4G
Frequency	GSM850/EGSM900/ DCS1800/PCS1900MHz	LTE-FDD/LTE-TDD/WCDMA/ TD-SCDMA/CDMA/GSM
Remote Communication 2	GPRS / 4G	
Remote Communication 3	-	WiFi
Antenna	Sucker Antenna	

Hardware Parameters

Ethernet	Adaptive Network: 10 / 100M	
Input Voltage	DC 15V~60V	
Working Power	< 10W	
Output Voltage	DC 12V 500mA	
Indicator Light	LED x4	
Memory	128MByte NAND FLASH	
	8GB TF Card (Optional)	8GB TF Card (Standard)
Analog / Digital Input	Analog Input x6 / Digital Input x6	Analog Input x4 / Digital Input x4
Digital Output	16A 250VAC Magnetic Latching Relay Output x2	
USB	Mini USB x1	USB x1
S0 in	NA	2
Clock	Chip Internal Clock	
RS 485	4	4
RS 232	1	1
CAN	1	1
PI	-	1
Power off Reminder	X	√
Operating Temperature	-20°C~ +60°C	
Operating Humidity	10-95% (No Condensing)	
Dimension	240*118*49mm	
IP Grade	IP20	
Installation Method	35mm Din-Rail Mount	

Software Parameters

No. of Connections	1-100	
Data Acquisition Interval	Default: 5mins (1-15 mins Configurable)	
User Configuration	AT + Instruction Set, Remote Server	
Firmware Upgrade	SMS / Remote / Local	
Others	Real-time Control, Data Resuming Transfer	