AXIbipremium XXL HC MW 530 - 555 Wp

High performance bifacial solar module 144 halfcell, monocrystalline



German-American-Engineering

The advantages:



15 years Manufacturer's warranty



High module performance through Half-Cut-technology and selected materials



Guaranteed positive power tolerance from 0-5 Wp by individual measurement



100% visual electroluminescence inspection in production



High stability due to innovative frame design

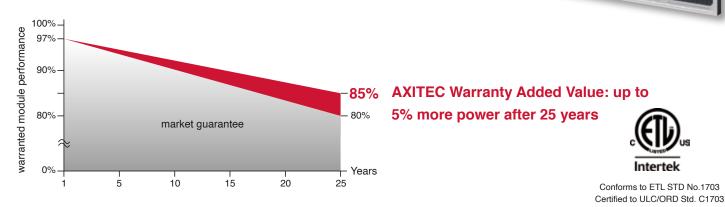


High quality junction box and connector systems



25 years Performance guarantee

Exclusive linear AXITEC high performance guarantee!





GERMAN BRAND



AXIbipremium XXL HC MW 530 - 555 Wp

Туре	AC-530MBT/144V	AC-535MBT/144V	AC-540MBT/144V	AC-545MBT/144V	AC-550MBT/144V	AC-555MBT/144V
Nominal output	530 Wp	535 Wp	540 Wp	545 Wp	550 Wp	555 Wp
Nominal voltage Umpp	41.31 V	41.47 V	41.64 V	41.80 V	41.96 V	42.11 V
Nominal current Impp	12.83 A	12.91 A	12.97 A	13.04 A	13.11 A	13.18 A
Short circuit current Isc	13.72 A	13.79 A	13.86 A	13.93 A	14.00 A	14.07 A
Open circuit voltag Uoc	49.30 V	49.45 V	49.60 V	49.75 V	49.90 V	50.05 V
Module conversion efficiency	20.52 %	20.71 %	20.90 %	21.10 %	21.29 %	21.48 %
Bifacial output - Backside Power of 10% Power output	gain 583.00 Wp	588.50 Wp	594.00 Wp	599.50 Wp	605.00 Wp	610.50 Wp
•						
Module Effiency	22.57 %	22.78 %	22.99 %	23.21 %	23.41 %	23.62 %
15% Power output	609.50 Wp	615.25 Wp	621.00 Wp	626.75 Wp	632.50 Wp	638.25 Wp
Module Effiency	23.59 %	23.82 %	24.04 %	24.26 %	24.47 %	24.70 %
20% Power output	636.00 Wp	642.00 Wp	648.00 Wp	654.00 Wp	660.00 Wp	666.00 Wp
Module Effiency	24.62 %	24.85 %	25.08 %	25.32 %	25.54 %	25.77 %
25% Power output	662.50 Wp	668.75 Wp	675.00 Wp	681.25 Wp	687.50 Wp	693.75 Wp
Module Effiency	25.65 %	25.89 %	26.13 %	26.37 %	26.60 %	26.84 %

Design

Frontside Cells Backside Frame 0.13 inch (3.2 mm) hardened, low-reflection white glass 144 monocrystalline high efficiency cells Composite film, cell caps white 1.38 inch (35 mm) silver aluminium frame

Mechanical data

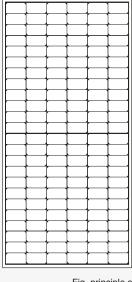
L x W x H Weight 89.68 x 44.64 x 1.38 inch (2278 x 1134 x 35 mm) 61.73 lbs (28 kg) with frame

Mechanical load

Design load (pressure/suction) 33.3 PSF / 33.3 PSF Test load (pressure/suction) 50 PSF / 50 PSF

Power connection

Socket Wire Plug-in system Protection Class IP68 51.18 inch, AWG 11 Plug/socket IP68, Stäubli EVO2



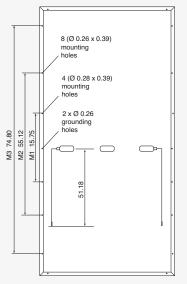


Fig. principle sketch

All dimensions in inch

Limit values

System voltage	1500 VDC (UL) 1000 VDC (IEC)							
Module Fire Performance	TYPE 1 (UL 1703)							
	or CLASS C (IEC 61730)							
NOCT (nominal operating of	cell temperature)* 45°C +/-2K							
Reverse current feed IR	30.0 A							
Permissible operating								
temperature	-40°C to 85°C / -40F to 185F							
Bifaciality	70 % ± 10 %							
(No external voltages great may be applied to the mod								

* NOCT, irradiance 800 W/m²; AM 1.5; wind speed 1 m/s; Temperature 20°C

Temperature coefficients

Voltage Uoc	-0.29 %/K
Current Isc	0.048 %/K
Output Pmpp	-0.35 %/K

Low-light performance (Example for AC-555MH/144V) I-U characteristic curve Current Ipp Voltage Upp 200 W/m² 2.69 A 40.53 V 400 W/m² 5.43 A 40.99 V 600 W/m² 8.12 A 41.31 V 800 W/m² 10.73 A 41.67 V 1000 W/m² 13.18 A 42.11 V

Packaging

Module pieces per pallet	31	
Module pieces per HC-container	620	

Technical data are subject to change without prior notice, errors excepted. The measurement tolerances are +/-3%. Please be aware: All technical data provided in our data sheets are property of Axitec LLC and intended for information purposes for our customers only. We cannot accept any guarantee of completeness or accuracy. These data are prohibited for any kind of commercial use.

MIN 8200~11400TL-XH-US

- Battery Ready for DC Coupled and AC Coupled systems
- With backup power and dark start operations
- Support RSD and AFCI
- Support multiple energy management modes: Self-consumption, Zero Export, TOU and Off-grid
- Comply with UL1741SA, CA Rule 21 & HECO

GROWATT





www.growatt-america.com

Datasheet	MIN 8200TL-XH-US	MIN 9000TL-XH-US	MIN 10000TL-XH-US	MIN 11400TL-XH-US			
nput Data (PV)							
lax. Recommended PV Power(STC)	16400W	18000W	20000W	22800W			
C/AC Ratio	1040011		2	2200011			
lax. DC System Voltage		60	VOC				
tartup Voltage			iov				
ull load voltage range	170-500V	190-500V	210-500V	235-500V			
ominal Voltage			50V				
perating Voltage Range o. of MPP Trackers			-550V 4				
o. of PV Strings per MPP Trackers			2				
lax. Input Current per MPP Trackers			3.5A				
lax. Short-circuit current per MPP trackers		16	5.9A				
nput/Output Data (DC)							
attery Voltage Range		3601/	~550V				
ominal DC Voltage			00V				
O DC Current	24A/24A	27A/27A	30A/30A	30A/30A			
O DC Power	8500W	9300W	10300W	10300W			
attery Technology			/ NMC				
attery Capacity per Module		9.9kWh /					
calability			Up to 2 in parallel				
compatible Batterys		Growatt ARO HV battery / L					
Dutput Data (AC)							
C Nominal Power@240V AC	8200W	9000W	10000W	11400W			
-							
C Nominal Power@208V AC	7280W	7900W	8735W	9880W			
1ax. AC Apparent Power	8200VA	9000VA	10000VA	11400VA			
ominal AC Voltage			//240V				
C Voltage Range @208V AC @240V AC		183V~229V	//211V~264V				
C Grid Frequency		50/	'60Hz				
C Grid Frequency Range		45~	-65Hz				
lax. Output Current	35A	38A	42A	48A			
ower Factor(@Nominal Power)).99				
djustable Power Factor			~0.8 lagging				
HDi			3%				
C Grid Connection Type			2/N/PE				
		LI/La	4/19/1 L				
Dutput Data (Backup)			_				
C Nominal Power	8200W	9000W	10000W	11400W*			
lax. AC Power Output	9840VA	10800VA	12000VA	13680VA			
ominal AC Voltage		24	40V				
lax. Output Current	41A	45A	50A	57A			
	416			0/4			
			5%				
C Port-V2 inverter			patible with ATS-US for Partial Home I	Заскир			
C Port-V3 Inverter	1AC P	ort for 1 ON Grid compatible with S	SYN200-US for Whole Home Backup				
Efficiency							
Max. Efficiency	98.3%	98.3%	98.3%	98.5%			
CEC Efficiency@208V AC	97.5%	97.5%	97.5%	97.5%			
CEC Efficiency@240V AC	97.5%	97.5%	97.5%	98.0%			
Protection Devices							
DC Reverse-polarity Protection		Ŷ	/es				
DC Switch		Y	les				
DC Surge Protection		Тур	pe II				
nsulation Resistance Monitoring			/es				
AC Surge Protection		Тур	pe III				
AC short-circuit Protection			/es				
Ground Fault Monitoring			/es				
Grid Monitoring			/es				
Anti-islanding Protection		Y	/es				
Residual-current Monitoring Unit		Y	les				
AFCI Protection		Ŷ	/es				
General Data							
Dimensions (W / H / D)		15.8/25.2/7 Alpoh	n(400/638/187mm)				
Weight			s /20.5kg				
Operating Temperature Range			60 °C)de-rating above 113°F				
Altitude			(3000m)				
nternal Consumption at Night			5W (for storage inverter)				
Cooling			Convection				
Electronics Protection Degree			4X (IP65)				
Relative Humidity		0~	95%				
nterfaces							
		Y	/es				
\$485			tional				
S485 /IFI/4G Communication							
/IFI/4G Communication			d 15 and 20 years warrantv)				
		Yes(optional for extended	15 and 20 years warranty) et 0.5% accuracy)				

GROWATT USA INC. Address: 9227 Reseda Blvd. #435 Northridge, CA 91324. Sales Hotline : 818 800 9455 Service Hotline : 1866 686 0298 Email: usa@ginverter.com

OMCO Solar Field-Fast™ Mounting System

OMCO's proprietary design provides a cutting edge solution which includes various features to markedly reduce installation costs and ensure proper construction. Buying direct from the manufacturer provides a cost advantage along with unparalleled customer support.

DIRECT FROM MANUFACTURER: Competitive advantage in pricing and customer support direct from a knowledgeable and experienced team.

OMCO FIELD-FAST™ FEATURES & BENEFITS: This fixed-tilt system design provides a solution which includes various features to reduce installation costs and ensure proper construction.

- PREASSEMBLED COMPONENTS:
 - *Module Clamps:* Optimizes packaging and shipping, reduces on-site labor requirements, accelerates total build time, and eliminates loose hardware.
 - **Tilt-Bracket Subassembly:** Reduces number of items on bill of materials, improves speed of installation, and streamlines unloading process at project-site
- **SLIDE AND STAY MODULES:** Allows a simple two person installation that improves safety by utilizing no overhead lifting.
- **REVERSE CLIP INSTALL:** Allows all work to be completed at ground level, eliminating lift equipment, and consolidating tool.
- **INNOVATIVE ASSEMBLY FEATURES:** The rail is designed to hold modules during installation through integrated locating/spacing features, engineered tabs for safety/speed, and ensuring optimal orientation for any framed module.
- **ROW PITCH CAPABILITIES:** Simplifies installation on uneven terrain, maximizes linear articulation, and utilizes a single point connection.

PROVIDES ENHANCED FLEXIBILITY: OMCO has the ability to make modifications to the system as needed by site locations, customer specific requirements, and overall customization. The system is designed for use with all framed modules.

LOGISTICAL BENEFITS: There are multiple logistical saving through the convenience of sourcing direct from the manufacturer, manufacturing capabilities throughout the U.S., also gives OMCO customers more competitive freight costs and lead-time advantages.

MANUFACTURING CAPABILITIES: By being the supplier and manufacturer of the racking system, OMCO can furnish quotes faster and be more responsive to our customers through product and industry knowledge.



TECHNICAL SPECIFICATIONS									
FIELD-FAST RACKING SYSTEM NOTES	MODULES IN PORTRAIT & LANDSCAPE								
TILT ANGLES	5° - 45°								
TERRAIN ARTICULATION	GRADE CHANGES CAN BE ACCOMMODATED WITH STANDARD								
	COMPONENTS FROM EAST TO WEST								
MATERIAL (GALVANIZED STEEL)	PER ASTM A653 LATEST EDITION								
BONDING/GROUNDING	PER UL 2703								
MODULE COMPATABILITY	ANY COMMERICALLY AVAILABLE FRAMED FLAT PLATE MODULE								
TYPICAL FOUNDATION	PILE-DRIVEN								
IN-FIELD FLEXIBILITY	SEVERAL BUILT-IN ADJUSTABILITY FEATURES VIA CUSTOM SLOT								
	CONFIGURATIONS TO ACCOUNT FOR POST MISALIGNMENT AND								
	TERRAIN ELEVATION CHANGES WITH NO ADDITIONAL								
	COMPONENTS								
POST TOLERANCES	EAST-WEST POST TILT TOLERANCE ± 1°								
	NORTH-SOUTH POST TILT TOLERANCE ± 1°								
INSTALLATION RATES	THE FASTEST PANEL INSTALLATION TIME IN THE SOLAR INDUSTRY!								
	ADDITIONAL TIME STUDY DETAILS NOTED BELOW								
WIND/SNOW LOAD INFORMATION	WIND – UP TO 180/MPH								
	SNOW – UP TO 90 PSF								
WARRANTY	20 YEAR LIMITED WARRANTY								
MANUFACTURING	OMCO SOLAR'S FIELD-FAST MOUNTING SYSTEM COMES DIRECT								
	FROM THE MANUFACTURER; YOUR SINGLE-SOURCE SUPPLIER								

OMCO INTRODUCES THE REVOLUTIONARY

FIELD-FAST SOLAR MOUNTING SYSTEM Direct From Manufacturer

Where Experience Meets Innovation

TIME STUDY - MBOS

TIME STUDY – PANEL INSTALLATION

Activity	Op #	CT secs / comp	# of comp.	Total CT)	10	0 2	100	300	400	5
Hang Tilt Bracket on Post with 1 bolt	1	20	1	20								
2 Diagonal Strut to T-Bracket with 1 bolt	2	20	1	20								
D-Strut to Post and torque 2 bolts	1	40	1	40								
D-Strut to T-Bracket with 1 bolt, torque	2	20	1	20								
T-Bracket on post, 1 bolt, torque	2	20	1	20								
Install Rack Beam	1&2	150	1	150								
Install Bridge Beam	1&2	120	1	120								
Grab Mod Rail and latch on Beam	1	10	5.25	53								
Bolt Mod Rail on top using ladder	2	20	5.25	105								
0 Bolt Mod Rail on bottom	1	10	5.25	53			_					
Number of installers:	2				L	abor eff	iciend	:y: 85%		Cycle ti	me per set:	465 se
Total man hrs per set:	0.304					Panel	ls in s	iet: 10		Set	ts per hour:	
Burdened labor rate:	\$40.0					PV	watta	ige 300		Se	ts per shift:	
* Note: a set consists of components c	ontaine	d hatwa	on 2 no	ete (eaa	lav	out tab)			Labor co	st per watt:	\$0.00

Work Combination Table for: Module Installation Set* with 2 installers											3/13/17	NS		
	Activity	Op #	CT secs / comp	# of comp.	Total CT		0 8	50	100	150	201	D 2	50	300 350
1	Slide in top panel and latch	1&2	22	5	110									
3	Slide bottom panel and latch	1&2	22	5	110									
4	Install bottom clamps	1	10	5	50									
5	Torque clamps from under rack	1	6	5	30									
6	Torque clamps from under rack	2	6	10	60									
			6											
	Number of installers:				Ŀ	abor effic	iency:	85%		Cy	cle time	per set:	306 secs	
Total man hrs per set: 0.200				Panels in set: 10							Modules per hour:			100
	Burdened labor rate:					PV w	attage	300	W	atts in	stalled p	er hour:	30,000	
* Note: a set consists of 10 modules average between 2 posts Labor cost per watt: \$0.								\$0.0027						

