

TITULO: DIAGRAMA UNIFILAR	CLIENTE: JOSINETE VIANA DA SILVA	٥,
DATA: 09/2025	PROJETO: NAYANE MARIA SANTOS DA SILVA	NAYANE MARWS
PRANCHA: 01/05	ENDEREÇO: PV TUQUANDUBA, 18, ZONA RURAL, MARECHAL DEODORO-AL	CRT-3: 120901614

NAYANE MARUY SANTOS DA SILVA Tecnica en Beliotécnica CRT-3: 12090161418

SAJ

R5 Rooftop Solar Inverter

R5-3K/3.6K/4K/5K/6K/7K/8K-S2 R5-5K/6K-S2-3



Technical DataR5 Series Single Phase Inverter 2 MPPT

Max. DC Voltage [V] 90-550 MPPT Voltage Range [V] 90-550 MPPT Voltage Range [V] 360 360 MPPT Voltage [V] 360 360 MPPT Voltage [V] 80 Max. DC Input Current PV1/PV2 [A] 12.5/12.5 Max. DC Input Current PV1/PV2 [A] 12.5/12.5 MINDER of DC Connection Sets Per MPPT 1/1 MINDER of DC Connection Sets Per MPPT 1/2 MINDER OF MPPT 2 2 MINDER OF MPPT MINDER OF MP	Туре	R5-3K-S2	R5-3.6K-S2	R5-4K-S2	R5-5K-S2	R5-6K-S2				
Max. DC Voltage [V] 600 MPT Voltage Name [V] 360 Start Voltage [V] 100 Max. DC Voltage [V] 115 Max. DC Disput Current PVI/PV2 [A] 12.6/12.5 Number of DC Connection Sets Per MPPT 2 DC Switch Optional	Input (DC)									
MPPT Voltage Range IV] Start Voltage IV] Start Vo	Max.PV Array Power [Wp] @ STC	4500	5520	6000	7500	9000				
Nominal DC Voltage [V] 380 Start Voltage [V] 100 Miss. DC Voltage [V] 80 12.5/12.5 Miss. DC Voltage [V] 80 12.5/12.5 Miss. DC Input Current PV1/PV2 [A] 12.5/12.5 Miss. DC Input Current PV1/PV2 [A] 12.5/12.5 Miss. DC Input Current PV1/PV2 [A] 11.5 Miss. DC Optional 11.5 Miss. DC O	Max. DC Voltage [V]									
Start Voltage [V]	MPPT Voltage Range [V]	90-550								
Min. DC Voltage [V]	Nominal DC Voltage [V]	360								
Max. DC Input Current PVI-PV2 [A] 12.5/12.5	Start Voltage [V]									
Number of DC Connection Sets Per MPPT Number of MPPT DC Switch Output [AG] Rated AC Power [W] 3000 3680 4000 4999 600 Max. AC Power [W] 3300 3680 4400 5000 600 Rated AC Power [W] 3300 3680 4400 5000 600 Rated AC Current [A] 13.1 16.0 17.4 21.7 28 Max. AC Current [A] 13.1 16.0 17.4 21.7 28 Max. AC Current [A] 18.1 16.0 17.4 21.7 28 Max. AC Current [A] 18.1 16.0 17.4 21.7 28 Max. AC Current [A] 18.1 16.0 17.4 21.7 28 Max. AC Current [A] 18.1 16.0 17.4 21.7 28 Max. AC Current [A] 18.1 18.1 18.0	Min. DC Voltage [V]									
Number of MPPT	Max. DC Input Current PV1/PV2 [A]			12.5/12.5						
DC Switch Optional County [AC]	Number of DC Connection Sets Per MPPT									
Output [AC] Rated AC Power [W] 3000 3680 4000 4999 600 6	Number of MPPT									
Output AC Rated AC Power W 3000 3680 4000 4999 600	DC Switch									
Rated AC Power [M] 3000 3680 4000 4999 600	Output [AC]									
Rated AC Current [A]		3000	3680	4000	4999	6000				
Rated AC Current [A]	. ,					6000				
Max. AC Current [A] 14.4 16.0 19.2 21.7 26						26.1				
Nominal AC Voltage / Range [V] 220,230,240/180-280 Grid Frequency Range [Hz] 50,60/45-55,55-65 Power Factor Cos 49 0.8 leading-0.8 lagging Total Harmonic Distortion [THDI] < 2%(at nominal power) Feed-in	• •					26.1				
Grid Frequency/ Range [Hz] 50,60/45-55,55-65 Power Factor [cos φ] 0.8 leading −0.8 lagging Total Harmonic Distortion [THDI] < 2%(at nominal power) Feed-in L+N+PE Efficiency ### ### ### ### ### ### ### ### ### #		17.7				20.1				
Power Factor Cos φ 0.8 leading = 0.8 lagging Total Harmonic Distortion THDi]										
Total Harmonic Distortion [THDi] C2%(at nominal power)			0		a					
Feed-in					-					
Efficiency 97.8% 98.0% 98.0% 98.1% 98.2 Euro Efficiency 97.2% 97.5% 97.5% 97.6% 97.6 97.4 MPPT Accuracy 99.5% 97.6% 97.6% 97.6 97.6%			`		')					
Max. Efficiency 97.8% 98.0% 98.1% 98.2 Euro Efficiency 97.2% 97.5% 97.6% 97.6 MPPT Accuracy >99.5% Protection Integrated DC Invalidation Monitoring Integrated DC Isolation Monitoring Integrated GFCI Monitoring Integrated DC Surge Protection Integrated AC Grounding detection Integrated AC Grounding detection Integrated AC Grounding detection Integrated AC Grounding detection MC GC Surge Protection MC4 AC GC Gonection MC4				LTINTFL						
Euro Efficiency 97.2% 97.5% 97.6% 97.6 MPPT Accuracy >99.5% 97.6 Protection Integrated 97.0 Internal Over-voltage Protection Integrated 97.0 DCI Monitoring Integrated 97.0 GFCI Monitoring Integrated 97.0 GFCI Monitoring Integrated 97.0 GFCI Monitoring Integrated 97.0 AC Short Circuit Current Protection Integrated 97.0 AC Grounding detection Integrated 97.0 97.0 AC Grounding detection Integrated 97.0	-	07.00/	0.9 0.0/	00 00/	00 10/	98.2%				
MPPT Accuracy >99.5% Protection Integrated Internal Over-voltage Protection Integrated DC Insulation Monitoring Integrated GFCI Monitoring Integrated GFCI Monitoring Integrated Grid Monitoring Integrated AC Short Circuit Current Protection Integrated AC Grounding detection Integrated DC Surge Protection Integrated AC Surge Protection Integrated Thermal Protection Monitoring AFD Interface MC4 DC Connection MC4 AC Connection MC4 AC Connection Plug-in connector Human Machine Interface LED + (bluetooth/Wi-Fi+APP) Communication Port RS232(USB joints)+RS485(RJ45 crystal joints) Communication Mode Wi-Fi / GPRS / 4G(Optional) General Data Transformerless Consumption at Night [W] <0.2	•									
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Thermal Protection	-			-						
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Communication Mode General Data Topology Transformerless Consumption at Night [W] Consumption at Standby [W] Operating Temperature Range Cooling Method Ambient Humidity Altitude Noise [dBA] Ingress Protection Wi-Fi / GPRS / 4G(Optional) Value (Optional) Algo (Optional) Avairal Convertes Cooling Method (Particular Subove 45 optional) Noise [dBA] Noise [dBA] Noise [dBA] Noise [dBA] Noise [dBA]										
General Data Topology Transformerless Consumption at Night [W] <0.2 Consumption at Standby [W] 6 Operating Temperature Range -40°C to +60°C (running in reduced load condition when the temperature is above 45 Cooling Method Natural Convection Ambient Humidity 0-100% Non-condensing Altitude 4000m (>3000m power derating) Noise [dBA] <25 Ingress Protection IP65										
Topology Transformerless Consumption at Night [W] < 0.2 Consumption at Standby [W] 6 Operating Temperature Range -40°C to +60°C (running in reduced load condition when the temperature is above 45 Cooling Method Natural Convection Ambient Humidity 0-100% Non-condensing Altitude 4000m (>3000m power derating) Noise [dBA] <25 Ingress Protection IP65	Communication Mode									
Consumption at Night [W] < 0.2 Consumption at Standby [W] 6 Operating Temperature Range -40°C to +60°C (running in reduced load condition when the temperature is above 45 Cooling Method Natural Convection Ambient Humidity 0-100% Non-condensing Altitude 4000m (>3000m power derating) Noise [dBA] <25 Ingress Protection IP65	General Data									
Consumption at Standby [W] Operating Temperature Range -40°C to +60°C (running in reduced load condition when the temperature is above 45 Cooling Method Ambient Humidity O-100% Non-condensing Altitude 4000m (>3000m power derating) Noise [dBA] Ingress Protection IP65	Topology	Transformerless								
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Cooling MethodNatural ConvectionAmbient Humidity0-100% Non-condensingAltitude4000m (>3000m power derating)Noise [dBA]<25	Consumption at Standby [W]									
Ambient Humidity 0-100% Non-condensing Altitude 4000m (>3000m power derating) Noise [dBA] <25 Ingress Protection IP65	Operating Temperature Range	-40°C to +60°C (running in reduced load condition when the temperature is above 45°C)								
Altitude 4000m (>3000m power derating) Noise [dBA] <25 Ingress Protection IP65	Cooling Method									
Noise [dBA] <25 Ingress Protection IP65	Ambient Humidity	0-100% Non-condensing								
Noise [dBA] <25 Ingress Protection IP65	Altitude									
Ingress Protection IP65	Noise [dBA]									
1.00.1 0.10.	-									
Dimensions [H*W*D][mm] 389*367*143	-	389*367*143								
Weight [kg] 12.2										
3 3 1 31		5 (standard)/10/15/20/25 (Optional)								
Applicable Standard EN 50438 EN 50549 VDE-AR-N4105 AS/NZS 4777.2 CEI 0-21										



Degradação anual de potência de 0,45% e garantia linear de potência de 30 anos.

Resistência PID

Excelente performance Anti-PID garantida através de processos de produção em massa otimizados e controle de materiais

Carga Mecânica Aprimorada

Certificado para suportar carga de vento (2.400 Pascal) e carga de neve (5.400 Pascal)

Maior Produção de Energia

A potência do módulo aumenta de 5 a 25% em geral, resultando em um LCOE (custo nivelado de energia) significativamente mais baixo e um IRR (taxa interna de retorno) mais alto.

CERTIFICAÇÕES

IEC 61215 / IEC 61730

ISO 9001: 2015 Sistema de Gestão de Qualidade

ISO 14001: 2015 Sistema de Gestão Ambiental

ISO 45001: 2018 Sistema de gestão de saúde e segurança ocupacional

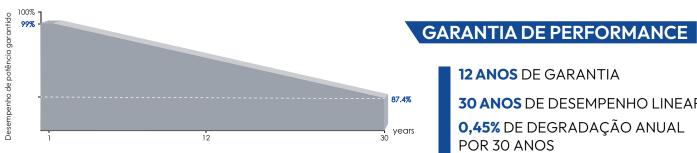












12 ANOS DE GARANTIA

30 ANOS DE DESEMPENHO LINEAR **0,45%** DE DEGRADAÇÃO ANUAL POR 30 ANOS

ESPECIFICAÇÕES

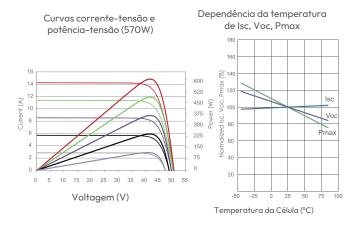
Tipo de Módulo

	TS590S8E-144GANT	TS595S8E-144GANT	TS600S8E-144GANT	TS605S8E-144GANT	TS610S8E-144GANT	TS615S8E-144GANT	
Potência Máxima (Pmáx)	STC	STC	STC	STC	STC	STC	
Tensão Máxima de Potência (Vmp)	590W	595W	600W	605W	610W	615W	
Corrente Máxima de Potência (Vmp)	43.41V	43.59V	43.76V	43.94V	44.11V	44.28V	
Corrente de curto-circuito (Isc)	13.59A	13.65A	13.71A	13.77A	13.83A	13.89A	
Tensão de circuito aberto (Voc)	52.00V	52.20V	52.40V	52.60V	52.80V	53.00V	
Módulo Eficiência STC (%)	14.35A	14.42A	14.48A	14.53A	14.57A	14.61A	
Temperatura de operação (°C)	21.8%	22.0%	22.2%	22.4%	22.6%	22.7%	
Tensão máxima do sistema	-40°C~+85°C						
Classificação máxima do fusível em s	série 1500VDC (IEC)						
Tolerância de energia	30A						
Coeficientes de temperatura de Pma	0~+3%						
Coeficientes de temperatura de Voc	-0.29%/℃						
Coeficientes de temperatura de Isc	-0.25%/℃						
Temperatura nominal da célula oper	eracional (NOCT) 0.045%/°C						
Fator Bifacial de Referência	45±2°C						

ESPECIFICAÇÕES MECÂNICAS

Célula N-Type Monocristalina N° de células 144 (6×24) 2384×1134×30mm Dimensões Peso 33.3 kg Vidro de 2,0 mm, com revestimento anti-reflexo Vidro Frontal Vidro de 2,0 mm, reforçado termicamente Vidro Traseiro Quadro Moldura de Poliuretano Classificação IP68 Caixa de Junção TUV 1x4,0 mm Cabos de Saída (+): 400 mm, (-) 200 mm ou comprimento personalizado.

CURVAIV



CONFIGURAÇÃO DE EMBALAGEM

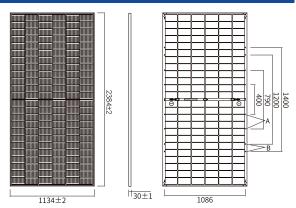
(Duas paletes = uma pilha)

37 unidades/paletes, 74 unidades/pilha, 740 unidades/40'HQ Container

COEFICIENTE DE TEMPERATURA



DESENHO TÉCNICO











Especificações presentes nessa ficha técnica estão sujeitas a alterações sem aviso prévio.