

Vidya Prasarak Mandal's

Maharshi Parshuram College of Engineering, Velneshwar Hedvi-Guhagar road, At: Velneshwar, Taluka: Guhagar,

Dist: Ratnagiri (Maharashtra) 415 729

(AICTE & DTE approved and affiliated to University of Mumbai)

Tel No. 02359-243102/3/4 Fax No. 02359-243102 E-mail:

mpcoe@vpmmpcoe.org
URL:www.vpmmpcoe.org

7.1.3 Alternate Energy initiatives such as:

1. Percentage of annual power requirement of the Institution met by the renewable energy Sources

7.1.3 Alternate Energy initiatives such as: Percentage of annual power requirement of the Institution met by the renewable energy sources (1)			
Power requirement met by renewable energy sources	Total power requirement	Renewable energy source	Renewable energy generated and used
40 kWp	1071 kW (Entire connected load)	Solar Energy (40 kWp)	32.7 kWp

Solar:

- We are having rooftop solar generation system installed on Shripati building terrace.
- One system is of 30KWp installed on framework type structure above terrace and another system is of 10KWp installed on the terrace.
- Generated DC is converted into AC by three 15KVA Fronius IG Plus inverters installed in faculty cabin on the first floor of Shripati building.
- Generated energy is used in Shripati building.
- Approximately it generate 150-200 units daily.

Calculations:-

Solar Energy generated by 10 kwp system = 60.7 MWh,

Solar Energy generated by 30 kwp system = 28 MWh,

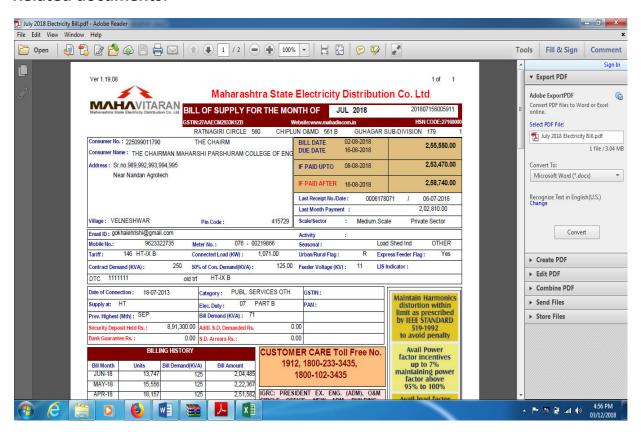
Total Energy consumed from MSEDCL up till yet = 226578 kWh

Therefore,

Percentage of annual power requirement met by Solar Energy

- = (Solar Energy generated by 10 & 30 kwp systems / Total Energy consumed from MSEDCL till yet)*100
- = (88.7 MWh / 226578 kWh)*100
- = 39.14 %

Related documents:

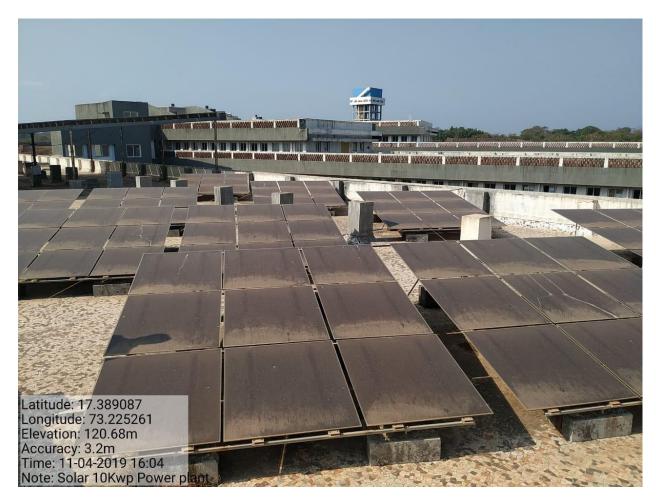




Incoming feeder of solar.







Solar on Sripati A1 Building

Tel No. : 2542 6270 Tel Fax : 2544 8768 Website: www.vpmthane.org : vpm@vpmthane.org



VIDYA PRASARAK MANDAL

Estd.: 1-8-1935

Public Trust Regn. No. F-5(T)

DR. BEDEKAR VIDYAMANDIR, NAUPADA, THANE (WEST) - 400 602.

Ref.: VPM/ VEI/ 189

Date: 02/04/20/2

Adjuria Consultancy Pvt Ltd. 254 A/N-3 CIDCO, Aurangabad 431003

Sub.: Installation of Soalr System in our Velneshwar College Campus.

Dear Sirs,

With reference to your proforma invoice No. 201203 V1P dated 25.03.2012, we are pleased to place an order for installation of Soalr System in our Velneshwar College Campus, Taluka Guhagar, Dist. Ratnagiri, as follows:

Sr No	Description	Qty	Unit	Amt (Rs)
1	Solar PV modules, made in Germany MPV120M	10800	Wp	Included
2	Grid connected inverter, made in Austria Fronius IG Plus120	1	Set	Included
3	Soalr PV Module mounting structure for flat roof	1	Set	Included
4	Cable and connectors for inter connection of modules and inverter	1	Set	Included
	Access to 3 phase connection point for feeding solar electricity in our network is assumed to be present within 50m of solar modules. Extra capling will be billed at cost			
	Lightning protection for solar plant as well as building will be provided by us			
5	Installation as well as commissioning of modules and inverter		*	Included
6	Sr No. 1 to 5 on turn key basis	1	Set	17,82,000.00
	OI IV.		Total	17,82,000.00

Terms and conditions:

Payment: 50% advance and Balance on installation

You will complete the installation within 1 month of this order.

Taxes extra, as applicable

Warranty on backtoback basis, as provided by the manufacturers

Adjurja will have right to gather performance data from the installation and use it for promotion of products and services offered. Adiurja will also have right to invite prospective customers to the installation site for inspection of installed system with permission from us in advance

Site Address: VPM's Maharshi Parashuram College of Engineering

Hedavi Guhagar Rd; At Velneshwar, Tal.: Guhagar, Dist. Ratnagiri.

Billng: in favour of VPM's Maharshi Parashuram College of Engineering (Proposed), 6.

In this connection, we enclose herewith a Cheque No. 490944 dated 02.04.2012 for Rs. 8,91,000/- being 50% advance towards the same.

We will try by complete the work

in one month both our standard term

is his try's form complete. Here aloke.



Dr. V.V. Bedekar Chairman Vidya Prasarak Mandal

India

Proforma Invoice

Number:

201203V1P

Customer number Date of offer Valid until Date of delivery

2012V1 25 March 2012 07 April 2012 Within 8 weeks of full

Ciro	()1	11111	
pay	m	ent	

#	Description	Quantity	Unit	Amount
01	Solar PV modules, made in Germany MPV120-M (Datasheet attached)	10,800	Wp	Included
02	Grid connected inverter, made in Austria Fronius IG Plus120 (Datasheet attached)	1	Set	Included
03	Solar PV module mounting structure for flat roof	1	Set	Included
	Cables and connectors for interconnection of modules and inverter Important: - Access to 3 phase connection point for feeding solar electricity in your network is assumed to be present within 50m of solar modules. Any extra cabling will be billed at cost - Lightning protection for the solar plant as well as the building is strongly recommended and is not in the scope of our delivery	1	Set	Included
05	Installation as well as commissioning of modules and inverter	•	ù-	Included
06	#01 to #05 on turn key basis	1 .	Set	₹ 17,82,000.00
			Total	₹17,82,000.00

Terms and conditions:

 Payment to be made 100% in advance and in one part. Partial payments or payments in cash are not acceptable. Only cheque, demand draft or direct bank transfer will be accepted

Currently, there is no VAT or duty on solar components, however local taxes such as
octroi regulations vary from time to time, therefore such taxes paid by us to bring the
material to your site will be charged to you at actual. These extra charges to be paid by
you in full within one week of the delivery

3. Warranty on back-to-back basis, as provided by the manufacturers

4. Adiurja will have right to gather performance data from the installation and use it for promotion of products and services offered by us. We will also have right to invite prospective customers to the installation site for inspection of installed system with permission from you in advance

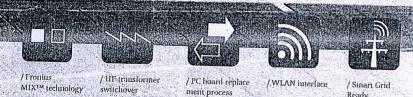
Thank you

M.M.Raut Adiurja Consultancy Pvt. Ltd.



FRONIUS IG PLUS

/ The allrounder with maximum yield.



ment process

/ The Fronius IG Plus generation of inverters represents an evolution of the proven Fronius IG product family. Power categories from 2.6 to 12 kW promise suitability for every possible system size. With a maximum efficiency of 95.9 %, the Fronius IG Plus range achieves one of the highest values for transformer inverters.

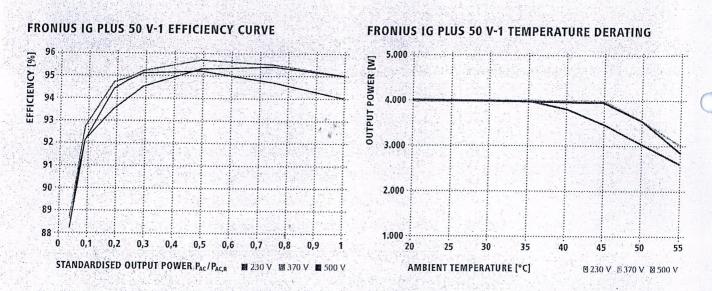
TECHNICAL DATA: FRONIUS IG PLUS (25 V-1, 30 V-1, 35 V-1, 50 V-1, 55 V-1, 60 V-1)

INPUT DATA	SAPRANDERENEAS MARKET PROPERTY.	Breve Scott Statemen	Managara da	BANASA BATARAT	FINE PARTERS PROTOGRAMME FOR CONTROL SAFE
DC maximum power at cos φ = 1	25 V-1	30 V-1	35 V-1	50 V•1 (a)	55 V-1 60 V-1
Muximput currout (Hemay)	2,740 W	3,170 W	3,710 W	4,260 W	5.260 W 6,320 W
Max, array short circuit current	17.9 А	20.7 ∧	24.3 Λ	27.9 A	22,9 A 1 27.5 A
Min: hipul.yollage (Vicioni) Feed-in start voltage (U _{de start})			DIAMETER OF COLUMN PROCESSOR OF COMPANY		34.4 A 41.3 A
Nominal input voltage (Udes)		HATTANIA SALA	260 V	SAT TO DESCRIPTION OF THE PARTY	中的一种企业的企业的企业企业企业企业企业企业企业企业企业企业企业企业企业企业企业企业企
Max, input voltage (Ude max)	THE STREET STREET STREET STREET	nid 1991 (Milatina)	170 γ 600 ∨	是一个人的现在,他们是一个人的一个人的一个人的一个人的一个人的一个人的一个人的一个人的一个人的一个人的	
MIPF voltage range (Uniop none SUmmeno Number of DC inputs			230 - 50		
Withteness	San Experience and according	at part of the second	6	2	Account to the second of the second s
OUTPUT DATA	25 V-1	30 V.1			STATE OF THE PROPERTY OF THE PROPERTY OF THE PARTY OF THE
AC-Neunleistung (Pac.)	2,600 W		35 V-1	50 V-1	55 V-1 60 V-1
Max mulput power 1	2,600 VA	3,000 W 3,000 WA	3,500 W -8,500 VA	4,000 W	5,000 W 6,000 W
Max, output current (lac max) Stellepinection (UAci)	11.3 A	13.0 A	15.2 A	4,000 VA- 17.4 A	5,000 VA 6,000 VA
Min. output voltage (Uar min)			15NPE 230 V		20.1 A
Mix output voltage (U)		The state of the state of	180 V 2 70 V		
Frequency (f.) TEQUENCY Entire (f.)			50 Hz / 60 Hz		
Distortion factor			46-65 tiz		
Power labbir (ens (t _{heir}))		STATE OF SERVICES	< 3 % 2 2 2 4 0 25 Tind / ca	TOP STOREST ON COLUMN	A transportation and some and some and some
GENERAL DATA	E I Commence Commence of the C	A COMMENTAL PROPERTY AND LAND THE	THE PROPERTY OF THE PARTY OF TH	Powers and the second	and the contract of the contra
AND DESCRIPTION OF THE PARTY OF	25 V-1	30 V-1	35 V-1	50 V-1	55 V-1 60 V-1
Dimensions (height x width x depth) Weight	DO NORMED TO SILVER STOLEN THE PROPERTY OF	673 x 434 x 250	en e		968 x 434 x 250 mm
Degree of protection		23.8 kg			216.0 kg
a Protection class			IP 54.0		
Overvoltage category (DC / AC) Night/line consumption/		a) de la companion de la compa	2/3	Total State of the second	
Inverter concept	Color Maria Caracteria de la Color de Caracteria de Caracteria de Caracteria de Caracteria de Caracteria de Ca		e facilità I W		
Cooling		en e	HF transformer Regulated dir cyoli	Tabana ang ang ang ang ang ang ang ang ang	Chairman arthur (Arthur an Arthur an
Installation Atubient temperature range			Indoor and outdoor inst	n S fate at Employees	
Permitted humidity		ribada kili	frout 20 C to +55 (¢.	
DC connection technology		والمعاري والكارات	0 % to 95 % ecminal connection 1,5%		Water the community of
AC connection technology	ASSESSMENT TO THE PROPERTY OF	Screw to	erminal connection 2.5 n	nru² - 35 mm²	
Geriffrans and compliance with standards	DIN V YDE Y	0126-I-1 (IVE / CINC	KM E 80014 712, VI E 0 . AS 4777-1, AS 4777-2, 7	DE TUZER EN SOARS C	\$3. G59, C 107.11, 3.1.1 103,

Fronius IG Plus 25 V-1, Fronius IG Plus 55 V-1 and Fronius IG Plus 60 V-1 devices do not comply with the German medium-voltage directive. Fronius IG Plus 55 V-1 and Fronius IG Plus 60 V-1 are not certified in accordance with the German low-voltage directive.

Further information regarding the availability of the inverters in your country can be found at www.fronius.com

"country-specific ³ Please refer to the information in the operating instructions regarding correct installation of the inverter (e.g. IP 44 applies to Australia).



TECHNICAL DATA: FRONIUS IG PLUS (25 V-1, 30 V-1, 35 V-1, 50 V-1, 55 V-1, 60 V-1)

	EFFICIENCY	25 V-1	30 V.1	35.V-1	50 V-1	55 V-1	60 V-1
in.	Max. efficiency	95.7 %	95.7 %	95.7 %	95.7 %	95.7 %	95.7 %
	European efficiency (mg)	240.0.94.686	04.8%	95.0%	95,0%	94.9%	0.5.0,%
	п at 5 % Раст ¹⁾		57.9 / 87.6 / 87.2 %	88.2 / 88.1 / 87.4 %	88.7 / 88.6 / 88.2 %	89.7 / 90.3 / 89.6 %	90.2 / 91.0 / 90.0 %
	unt 10 % Ph 611	3 89.7 / 89.8 / 89.4 %	00.4/90.8/90.2 %	91.6/923/91.5%	292.1/92.7/92.1% i	91.4/91.8/908.6	1. 923/92/2/V1.6 %
1	η at 20 % P _{ac,r} "	93.0 / 93.6 / 92.8 %	03.6 / 94.2 / 93.2 %	94.1 / 94.6 / 93.4 %	94.4 / 94.7 / 93.5 %	93.9 / 94.1 / 92.9 %	94.6 / 94.5 / 93.7 %
	- η at 25 % P _{uch} 10 - 50 - 50 - 50 - 50 - 50 - 50 - 50 -	93.8794.3793.3%	94.37.94.67.93.51%	94.67.94.67.93.7%	94.8794.9794.0%	944/946/936%	94.8 / 94.9 / 94.2.%
	ŋ at 30 % Pac,c ¹⁾	94.4 / 94.8 / 93.6 %	04.7 / 94.9 / 93.8 %	94.9 / 95.0 / 94.1 %	95.1 / 95.2 / 94.5 %	94.6 / 94.6 / 94.0 %	95.0 / 95.2 / 94.7 %
1	gan50,% Page 01	95.2/95.4/94.7%	05.27.95,57.94.9%	95.17.95.77.95,8%;	90.27.95.77.95.5%	94.9795.5794.7%	95.37 95.57 94,9 %
	η at 75 % P _{nc,τ} "	95.2 / 95.7 / 95.3 %	5.1 / 95.7 / 95.4 %	94.9 / 95.6 / 95.4 %	94.7 / 95.5 / 95.4 %	95.0 / 95.6 / 94.9 %	95.1 / 95.7 / 95.3 %
	maidon % Paul 3/10	94,9795:67,95.4 %	4.7 / 95.5 / 95:4 % (94.4 / 95.2 / 95.1, %	94.0795.0795.0%	954 / 95.7 / 95.2 %	94.7 / 95.5 / 95.0 %
	MPP adaptation efficiency			. 001	001		NAME OF TAXABLE PARTY O

PROTECTIVE EQUIPMENT 25 V-1 30 V-1 35 V-1 50 V/1 55 V-1	60. V-1
DC insulation measurement Warning/shutdown (depending on country setup) at R ₁₅₀ < 600 kOhm	terminal transfer and contract of the state of
是不是相互相比较的。在Miller and Andrew and	
DC circuit breaker Integrated	PACKAGE PROPERTY AND THE PACKAGES
	Comment Comment of the
	COSCIONARIA CANCALLA
INTERFACES 25 V-1 30 V-1 35 V-1 55 V-1 55 V-1	60 V-1
	# 00 V-1
Optional with Fronius Datamanager WLAN, Ethernet, Modbus TCP, 6 digital inputs, 4 digital inputs, Databoseer, Webserver	A BOOK PARTICIPATION OF THE PA

Optional with Fronius Datamanager WLAN, Etherner. Modbus TCP, 6 digital inputs, 4 digital inputs/outputs. Datalogger, Webserver Further information regarding the availability of the inverters in your country can be found at www.fronius.com.

¹⁰ and at U_{mpp min} / U_{ds,r} / U_{mpp max}.

TECHNICAL DATA: FRONIUS IG PLUS (55 V-2, 60 V-2, 70 V-2, 100 V-2)

INPUT DATA	55 V-2	60 V-2	70 V-2	100 V-2
DC maximum power at cos φ = 1	5,260 W	6,320 W	6,880 W	8,520 W
Max. Juput current [[dz max]] Max. array short circuit current	22.9.Λ 34.4 Λ	27.5 Å 41.3 ∧	30,0 Λ 45.0 Λ	32.1 Λ 55.7 Λ
Min input voltage (Udemin)	34.4 A	ATTER CONTRACTOR EAST PROPERTY OF THE STATE	0 V	
Feed-in start voltage (U _{de start})	TOTAL CHEST THE SECOND STREET OF THE SECOND STREET OF THE SECOND STREET	CONTRACTOR OF THE PROPERTY OF	() V remarkacharing for the species of escentistics	
Nominal imput voltage (U _{dex}) Max, input voltage (U _{demax})		HERDY DATABASE STATES TO SHANK WITH THE SELECT STATES TO SHANK TO	0.V 0.V	
MPP willinge range (Umpp min, Umpp max)			500 V	tria de la companya d
Number of DC inputs			6	
OUTPUT DATA	55 V-2	60 V-2	-70 V-2	100 V-2
SECURIOR ASSESSMENT OF THE SECURITY OF THE SEC		CONTRACTOR AND AND ADDRESS OF THE PARTY OF T	kiid steerikki status (5)	kan di di kacamatan da
AC nominal output (P _{ac.t}) Max/output/power	5,000 ₩ 5,000 V A	6,000 W 6,000 VA	6,500 W 6,500 VA	8,000 W
Max. output current (Lac max)	10.9 A	13.0 A	14.1 A (28.3 A) ¹¹	17.4 A (34.8 A) ¹¹
Grid compaginit (U.J.)	Z-NPE 400 V	ROTAL STREET, SELECTION OF SELE	Z-NPE 400 V / 230	V (1 NPE 230 V)0
Min. output voltage (U _{ac min}) Max: output voltage (U _{ac max}):	THEOREM STREET	180) V	
Frequency (f _r)	or emergence in the conference of the conference	50 Hz/	60 Hz	racional de la calenta de l
Frequency range (from - from) Distortion factor		1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1		
Power factor (cos.(paci))		< 3 (0.751.16	% od://cap. ^{?}}	
TO THE SAVING STATES AND THE SAVING STATES	e and designation of the second se		enemby Automorphism (1914) and the control of the c	
GENERAL DATA	55 V-2	60 V-2	70 V-2	100 V-2
Dimensions (height x width x depth)		968 x 434 :	250 mm	
Welghir		369	SPINORSHIPSELT SANDERTONS STATES OF STREET, STATES AND ACTION (1987).	
Degree of protection Erotection class		IP 5	Charles and the Control of the Contr	1.46 G. (1.28 A.)
Overvoltage category (DC / AC)	AND COURSE OF MARKING DESIGNATION OF THE STREET OF STREET	2/	3	
Night time consumption	Barrier Carlos and Late Foreign Comment	III trans	Walio i Asimili i i	
Gogling			ir cooling	
Installation		Indoor and outdo	or installation	
Ambient temperature range Permitted humidity		from -20°C 0 % to °	MARK TO BE A STATE STORY OF THE PARTY OF THE	
DC counsellay technology		IN A STATE OF THE PARTY OF THE	on 1.5 mm² – 16 mm²	
AC connection technology		Screw terminal connection	on 2.5 mm² - 35 mm²	WATER SOME PARTY AND ADDRESS OF THE
Certificates and compliance with standards			2 DTE G15-712-1, EN 50438, G83. 777-2, AS 4777-3, VDE AR N.410	
			innevaltage network (BDEW) 🐇 🐇	

Fronius IG Plus 55 V 2 and Fronius IG Plus 60 V 2 devices do not comply with the German medium voltage directive.

Further information regarding the availability of the inverters in your country can be found at www.fronius.com.

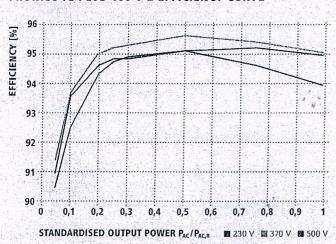
¹⁹ Single phase (opt.)

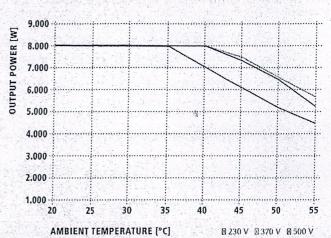
²⁰ country-specific

³⁰ Please refer to the information in the operating instructions regarding correct installation of the inverter (e.g. IG 44 applies to Australia).

FRONIUS IG PLUS 100 V-2 EFFICIENCY CURVE

FRONIUS IG PLUS 100 V-2 TEMPERATURE DERATING





TECHNICAL DATA: FRONIUS IG PLUS (55 V-2, 60 V-2, 70 V-2, 100 V-2)

EFFICIENCY	55 V-2	., (- 60 V-2)	70 V-2	100 V-2
Max. efficiency	95.7 %	95.7 %	95.7 %	95.7 %
European attioracy (new)	94/9/%	95.0%	95.1%	95.2%
	39.7 / 90.3 / 89.6 %	90.2 / 91.0 / 90.0 %	90.4 / 91.1 / 90.3 %	90.9 / 91.4 / 90.5 %
n a 1090 Part	11.4/91,87.968% 💛 🔭	92,37,92,27,91,6%	93.079327920%	93.6/93/7/92.5%
	03.9 / 94.1 / 92.9 %	94.6 / 94.5 / 93.7 %	94.7 / 94.7 / 94.0 %	94.7 / 95.1 / 94.4 %
mar 25 % Par Pi	14.4 / 94.6 / 93.6 %	94.8794.9794.27%	* 194.9/95.1/94.4%	94.9/95.3/94.8%
	04.6 / 94.6 / 94.0 %	95.0 / 95. 2 / 94.7 %	95.0 / 95.3 / 94.8 %	94.9 / 95.4 / 95.0 %
national and an arrangement of the second	14.97.95.51/-94.7.%	95.3 / 95.5 / 94,9 %	95.37.95,57.94.9%	95.2795.7795.2%
η at 75 % P _{aux} ¹⁾	5.0 / 95.6 / 94.9 %	95.1 / 95.7 / 95.3 %	95.0 / 95.7 / 95.3 %	94.7 / 95.5 / 95.3 %
THE TOOL AS L'OCH	54/25.7/95.2%	94.7 / 95.5 / 95.3.24	94.5/95.4/95.2%	94.0 / 95.1 / 95:0 %
MPP adaptation efficiency		, > 99.9 %		

PROTECTIVE EQUIPMENT 55 V-2 60 V-2 70 V-2 100 V-2

DC insulation measurement Warning/shutdown (depending on country setup) at R₁₅₀ < 600 KOhm

Overload Behaviour

DC circuit breaker Untegrated

WLAN, Ethernet. Modbus TCP. 6 digital inputs, 4 digital inputs/outputs. Datalogger, Webserver

INTERFACES 55 V-2 60 V-2 70 V-2 100 V-2

Further information regarding the availability of the inverters in your country can be found at www.fronius.com. 11 and at $U_{mpp\;min}/U_{der}/U_{mpp\;max}$

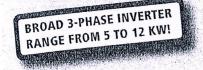
Optional with Fronius Datamanager

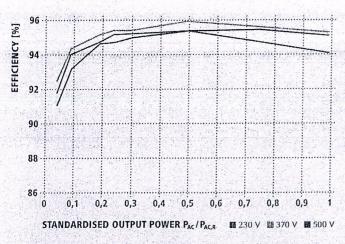
TECHNICAL DATA: FRONIUS IG PLUS (55 V-3 / 60 V-3 / 80 V-3 / 100 V-3 / 120 V-3 / 150 V-3)

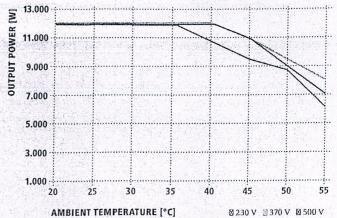
in	PUT DATA	55 V-3	60 V-3	80°V;3	100 V-3	120 V-3	150 V-3
DC	maximum power at cos φ = 1	5,250 W	6,300 W	7,360 W	8,430 W	10,590 W	12,770 W
Ma	x, input current (l _{demax})	Σ 22.8 Λ	27.5 A	32.0 A	36.7 A	46.2 A	1 55.6 A
	x. array short circuit current	34.2 A	41.3 A	48.0 A	55.1 A	69,3 A	83.4 A
	pliaput yoltogo (Uacodo)			12	Minbell and and a second second second second		
	d-in start voltage (U _{de start})		TO BETTER TO STATE OF	CHANGE SECRETARISM STREET, CONTRACTOR OF STR	60 V 70 V	PURIAR FRANCE	
	nigal input voltage (Ugc.r), sar- s. input voltage (U _{dc.max})	akia bada 24.55 g 46A6.24	Makalan akan ar	CONTRACTOR INC. LEADING ASSESSMENT OF STREET	49.¥ 5. 15.3 × 5.12.25 × 0 00 ∨	luneski karingilis et as	Airesteranica avel
	r. mput voltage (Ude mav) P. voltago range (Uhippinin - Umi			230	AND THE PERSON ASSESSMENT OF THE PERSON NAMED IN COLUMN TWO IS NOT THE OWNER.		105.000
	mber of DC inputs	demand of the man have been seen as an	CHINESE CONTRACTOR AND CONTRACTOR AN	and the second s	6	Military Moderation and Market Assert	COST CONTROL OF A SECURITY ASSESSMENT OF THE PROPERTY OF THE P
187074 640	er sammen de sam en europe servició historica de same en entre en	en examile to refer to mathe a sect and agreement in terms	ionograpii delegante especialistica delegante del	saiot ner desenganementen det	ann de vielle de de les de les les les les les les les les les le	WINDOWSKING WERKEND FOR	n industrial de la company
ON	TPUT DATA	55 V-3	60 V-3	80,V-3	100 V-3	120 V-3	150 V-3
AC	nominal output (P _{ac.c})	5.000 W	6,000 W	7,000 W	8,000 W	10,000 W	12,000 W
The secretary	c output power	5,000 VA	6,000.VA	7.000 VA	8,000 VA	10,000 VA	12,000 VA
4.23/25/	c. output current (lac max)	7.3 ∧	8.7 ∧	10.2 A	11.6 A	- 14.5 A	17.4 A
Grit	Leanucetion (U _{est}):			3-NPE 40	00 V / 230 V		
STATISTICS	. output voltage (Uac min)	TRANSPORTO MATERIA E ANCIO STRUBBATO PERCENTI	romande de divini este en		SOV.	organisanje paneramatavise)	
	Coutput voltage (Lichius)			SELECT CONTRACTOR AND A TELEVISION OF STATE OF S	70 V 1 (50.79)		a Figure 1 SPA
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	pigury rangg (L _{min /} L _{max}) ortion factor	e in the English branches of the best			3 %	SALASI KAMPAN KATIFAT SALA	HARRIST CONTRACTOR CONTRACTOR
	nt factor (cox pact)	accuracy in program is a control of the control of	All and the second	(0.75 ± 1			Section 1
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GE	VERAL DATA	55 V-3	60 V-3	80 V-3	100 V-3	120 V-3	150 V-3
	ensions (height x width x depth		Library and a solution	1.263 x 43	4 x 250 mm	Control of the Contro	teratum alfortisk occur
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Fronius IG Plus 55 V-3, Fronius IG Plus 60 V-3 and Fronius IG Plus 80 V-3 devices do not comply with German medium-voltage directive. Further information regarding the availability of the inverters in your country can be found at www.fronius.com.

0 country-specific
2 Please refer to the information in the operating instructions regarding correct installation of the inverte (e.g. IP 44 applies to Australia).







TECHNICAL DATA: FRONIUS IG PLUS (55 V-3 / 60 V-3 / 80 V-3 / 100 V-3 / 120 V-3 / 150 V-3)

	EFFICIENCY	55 V- 3	60 V-3	80 V-3	100 V-3	120 V-3	150 V-3
	Max. efficiency	95.9 %	95.9 %	95.9 %	95.9 %	95.9 %	95.9 %
100	Européan officiency (ηση)	94.9 %	95.0%	95.1%	95.1%	95.4% (4)	95.4 %
	η at 5% P _{ac,v} ^η	90.5 / 91.6 / 89.9 %	90.7 / 91.6 / 90.1 %	90.8 / 91.8 / 90.2 %	91.7 / 91.9 / 90.3 %	91.5 / 92.2 / 90.7 %	91.8 / 92.5 / 91.1 %
	η at 10% P ₀₀ , ¹¹	1915/922/908%	91.8 / 92,5 / 91.1 %	92.1/92.8/91.5%	93.17.93.17.92.0%	93.4 / 93.7 / 92.6 %	594.0 / 94/3 / 93/2 %
	η at 20% P _{aga} ¹⁾	93.4 / 93.6 / 93.3 %	94.1 / 94.3 / 93.2 %	94.2 / 94.5 / 93.6 %	94.3 / 94.9 / 94.2 %	94.6 / 95.2 / 94.5 %	94.7 / 95.1 / 94.6 %
	gar 25%(2° _{ma})	294.1 / 94,2 / 93,8,%	94,4 / 94.7 / 93.8 %	94.6 / 94.9 / 94.3 %	94.6/95.2/94,5%	94.7 / 95.3 / 94.7 %	95.1 / 95.3 / 94.7 %
	η at 30% P _{ag,r} 0	94.4 / 94.5 / 93.8 %	94.5 / 95.0 / 94.4 %	94.6 / 95.2 / 94.6 %	94.7 / 95.2 / 94.5 %	95.0 / 95.4 / 94.7 %	95.1 / 95.3 / 94.9 %
	nar50% Late	94,7/95,4/94,7%	95,17,95,47,94,6%	95,17,95,5794,90%	95,3/95,8/95.0%	95.3 / 95/9 / 95.1 %	958/959/953%
	η at 75% P _{ac,r} η	95.2 / 95.7 / 95.0 %	95.3 / 95.7 / 95.0 %	95.3 / 95.9 / 95.1 %	95.3 / 95.9 / 95.3 %	95.0 / 95.5 / 95.4 %	94.7 / 95.6 / 95.4 %
	Trac100% (*	195,37,95,97,95,2%	95,1/959/951%	95.17.95.77.95.1%	-94.9/95.7/95.4%	94.679757,953 %	94,0 / 95,2 / 95,1 %
	MDV adaptation officiency			> 99	0.0%		

adaptation efficiency > 99.

PROTECTIVE EQUIPMENT	55.V-3 60.V-3 80.V-3 100.V-3 120.V-3 150.V-3
DC insulation measurement	Warning/shutdown (depending on country setup) at R _{ISO} < 600 kOhm

erfball beliavious at the second of the seco

DC circuit breaker Integrated

INTERFACES. 55 V.3 60 V.3 80 V.3 100 V.3 120 V.3 150 V.3

Optional with Fronius Datamanager

WLAN, Ethernet, Modbus TCP, 6 digital inputs, 4 digital inputs/outputs, Datalogger, Webserver

Further information regarding the availability of the inverters in your country can be found at www.fronius.com.

1) and at Umpp min / Ude,r / Umpp max.

/ Battery Charging Systems / Welding Technology / Solar Electronics

WE HAVE THREE DIVISIONS AND ONE PASSION: SHIFTING THE LIMITS.

/ Whether Battery Charging Systems, Welding Technology or Solar Electronics - our goal is clearly defined: to be the technology and quality leader. With around 3,000 employees worldwide, we shift the limits of what's possible - our more than 850 active patents are testimony to this. While others progress step by step, we innovate in leaps and bounds. Further information about all Fronius products and our global sales partners and representatives can be found at www fronius com

Fronius Australia Pty Ltd. 90-92 Lambeck Drive Tullamarine VIC 3043 Australia pv-sales-australia@fronius.com www.fronius.com.au Fronius UK Limited Maidstone Road, Kingston Milton Keynes, MK10 OBD United Kingdom pv-sales-uk@fronius.com www.fronius.co.uk Fronius International GmbH Froniusplatz 1 4600 Wels Austria pv@fronius.com www.fronius.com

A MASDAR COMPANY

MPV-S - Our a-Si Thin-Film PV Module Innovation on 1.43 m²

Masdar PV's thin-film based PV modules are specially designed for use in ground mounted solar parks and in large roof applications.

Quality and Performance

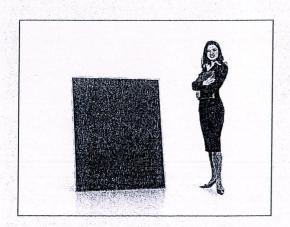
- Stable and uniform high quality module manufactured with state of the art thin-film technology
- Superior performance at higher temperature or lower irradiation compared to traditional crystalline modules
- Best in class performance tolerance offered, additionally secured by a positive sorting within each power class (-0 W/+5 W)
- Robust and reliable frameless glass-glass module
- · Built with recyclable and widely available materials
- · 100% final insulation test

Reliability, Warranty and Safety

- High reliability certified according to IEC61646 and IEC61730
- Limited product warranty of 5 years on material and workmanship
- Performance guarantee:
 - 10 years (90% of minimum stabilized rated power output)
 - 25 years (80% of minimum stabilized rated power output)

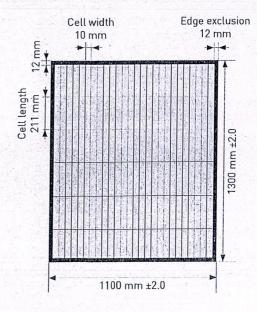
Module Design

- · Front and back cover made of float glass
- PVB foi
- Junction box with integrated bypass diode
- · Junction box in IP protection class 67 design
- Junction Box with MC4 plug and socket (without cable)



Dimensions

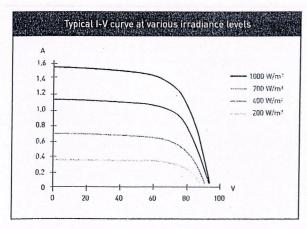
Front View



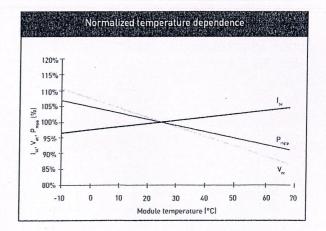
a-Si Thin-Film PV Module

Parameter	Uhit	MPV95-S	MPV100-S	MPV105-S
Nominal peak power (±5%) (P _{mpp})	W	95	100	105
Nominal voltage* (V _{mpp})	V	74	75	76
Nominal current* (I _{mpp})	Α	1.29	1.34	1.39
Open circuit voltage* (V _{oc})	V	95	96	96
Short circuit current* (I _{sc})	Α	1.53	1.58	1.63
Maximum system voltage (V _{max})	V		1000	
Maximum reverse current (I _R)	Α		3	
Bypass diode current (I _B)	À		10	
Temperature coefficient (P _{mpp})	%/K		-0.2	
Temperature coefficient (V _{oc})	%/K	A North Control	-0.3	
Temperature coefficient (I _{sc})	%/K		0.1	
Length	mm		1300	
Width	mm		1100	
Area	m²	*	1.43	
Thickness of module (incl. backrails)	mm		7 (32)	
Veight	kg		29.5	
Operating temperature range	oC .		-40 to +85	

Negative grounding required



All values at STC, STC = 1000 W/m 2 , 25°C, AM 1.5 * All values $\pm 10\%$ unless otherwise indicated.



Contact:

A MASDAR COMPANY

MPV-M - Our a-Si/μc-Si Thin-Film PV Module Innovation on 1.43 m²

Masdar PV's thin-film based PV modules are specially designed for use in ground mounted solar parks and in large roof applications. These modules are based on a tandem junction of amorphous silicon and microcrystalline silicon.

Quality and Performance

- Stable and uniform high quality module manufactured with state of the art thin-film technology
- Superior performance at higher temperature or lower irradiation compared to traditional crystalline modules
- Best in class performance tolerance offered, additionally secured by a positive sorting within each power class (-0 W/+5 W)
- Robust and reliable frameless glass-glass module
- Built with recyclable and widely available materials

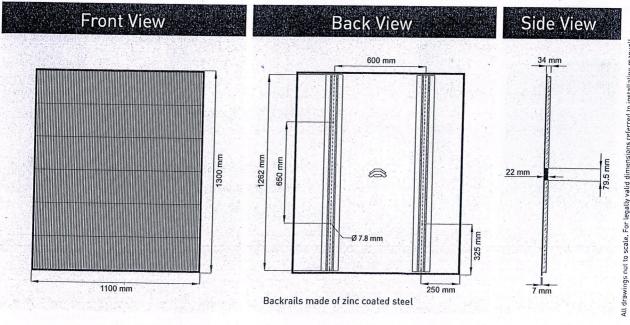
Reliability, Warranty and Safety

- High reliability certified according to IEC 61646 and IEC 61730
- Limited product warranty of 5 years on material and workmanship
- Performance guarantee:
 - 10 years (90% of minimum stabilized rated power output)
 - 25 years (80% of minimum stabilized rated power output)

Module Design

- Front and back cover made of float glass
- PVB foil
- Junction box with integrated bypass diode
- Junction box in IP protection class 67 design
- Junction Box with MC4 plug and socket (without cable)

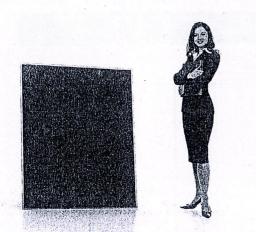
Dimensions

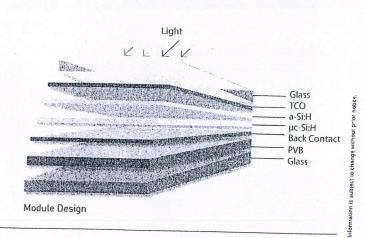


a-Si/μc-Si Thin-Film PV Module

Parameter	Unit	MPV115-M	MPV120-M	Verange Medical	Market Strate - President	
N			MEA STEM	MPVI25-M	MPV130-M	MPV135-M
Nominal peak power (±5%) (P_{mpp})	W	115	120	125	130	135
Nominal voltage' (V _{mpp})	V	107	109	111	112	114
Nominal current* (I _{mpp})	Α	1.07	1,10	1,13		
Open circuit voltage' (V _{oc})	V	141.3	142.2	143.0	1.15	1.18
Short circuit current' (I _{sc})	Α	1.30	1.34	1.37		
Maximum system voltage (V _{max})			1.04	1.37	1.40	1.44
	٧			1000		
Maximum reverse current (I _R)	Α			5		
Bypass diode current (I _B)	Α			10		
Temperature coefficient (Pmpp)	%/K			-0.3		
Temperature coefficient (V _{oc})	%/K			-0.37		
Temperature coefficient (I _{sc})	%/K	, ,		0.1		
Length	mm	, gr		1300		
Width	mm			1100		
Area	m²					
Thickness of module (incl. backrails)				1.43		
	mm			7 (34)		
Weight	kg	4		29.5		
Operating temperature range	°C			-40 to +85		
Negative grounding required						

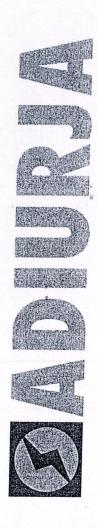
STC = 1000 W/m², 25°C, AM 1.5 All values at STC. Data derived from AMAT production line. * All values ±10% unless otherwise indicated.





Contact

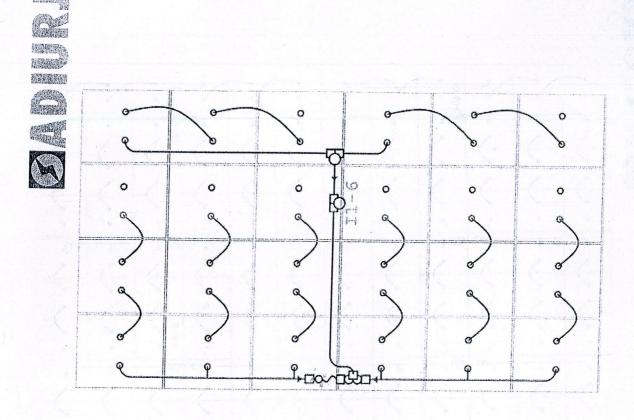
Masdar PV GmbH | Wolff-Knippenberg-Str. 4 | 99334 | Ichtershausen | Germany Phone +49 (0) 3628-58 68-0 | Fax +49 (0) 3628-58 68-265 | E-mail sales@masdarpv.com



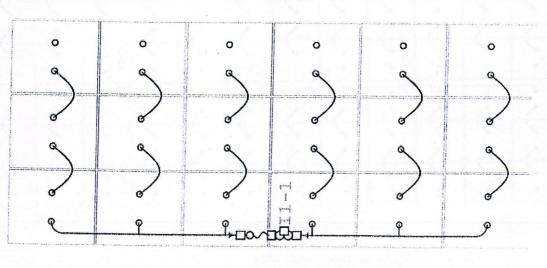
Velneshwar 30kWp

>) Lagina الروارين > > Lower la Eul ليتوسما >))) o 1 Looponi

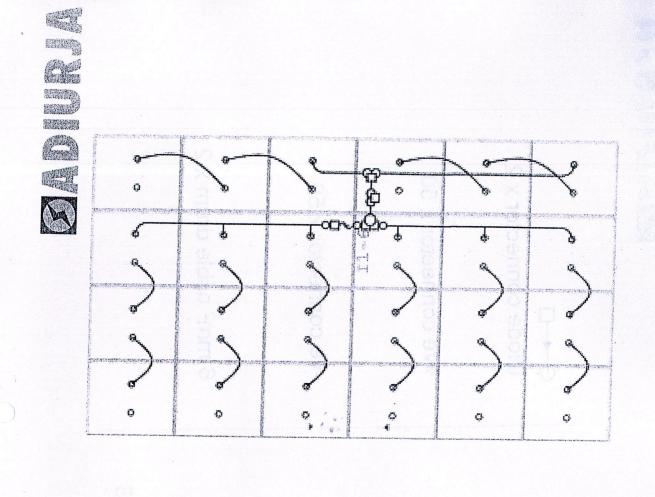
Positive wiring



Positive wiring - Enlarged

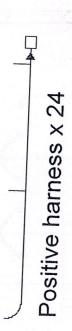


12-50 return. Langol B. 0 Lasvago 12-4 Lavasol IZ-3 Landon! o 0 0 Lanapol T2-2 Negative wiring Ĥ . 0 Landal Larasol



Negative wiring - Enlarged

Components



Negative harness x 24

Module interconnector x 166

☑ Male-Male-Female branch connector x 16 Female-Female-Male branch connector x 16



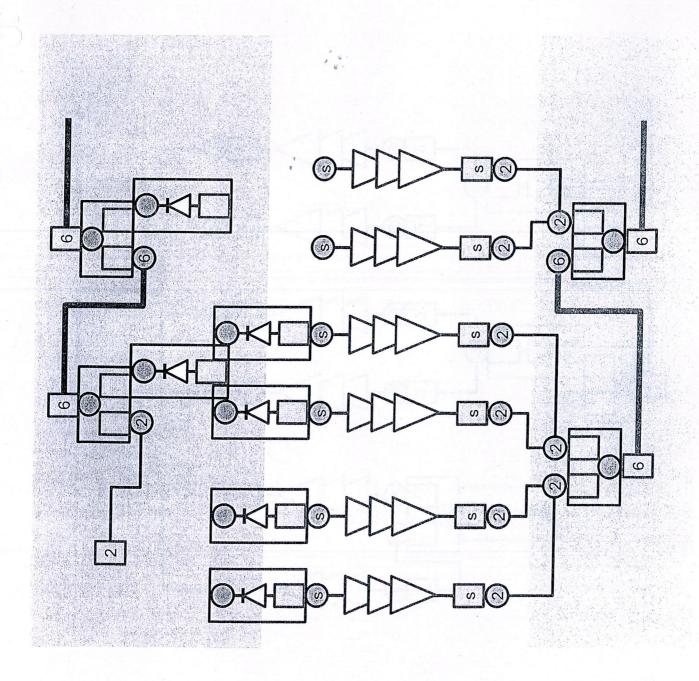
Diode connector x 2

+ve connector x 50

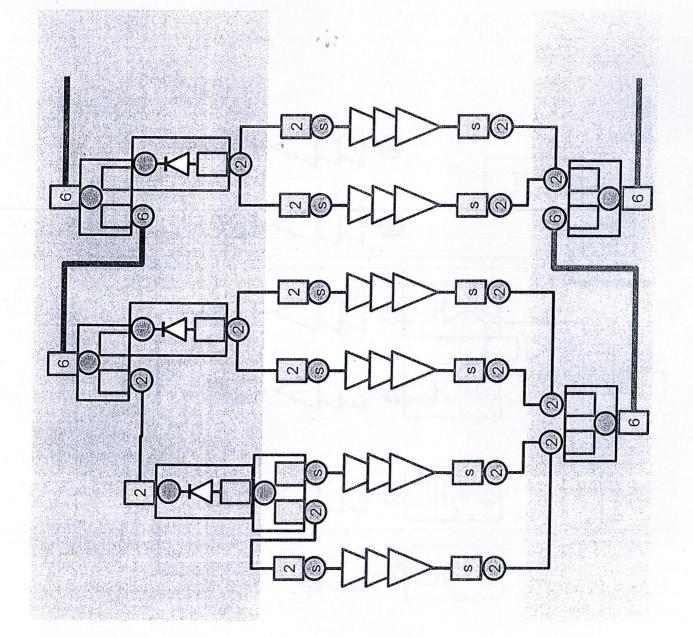
-ve connector x 50

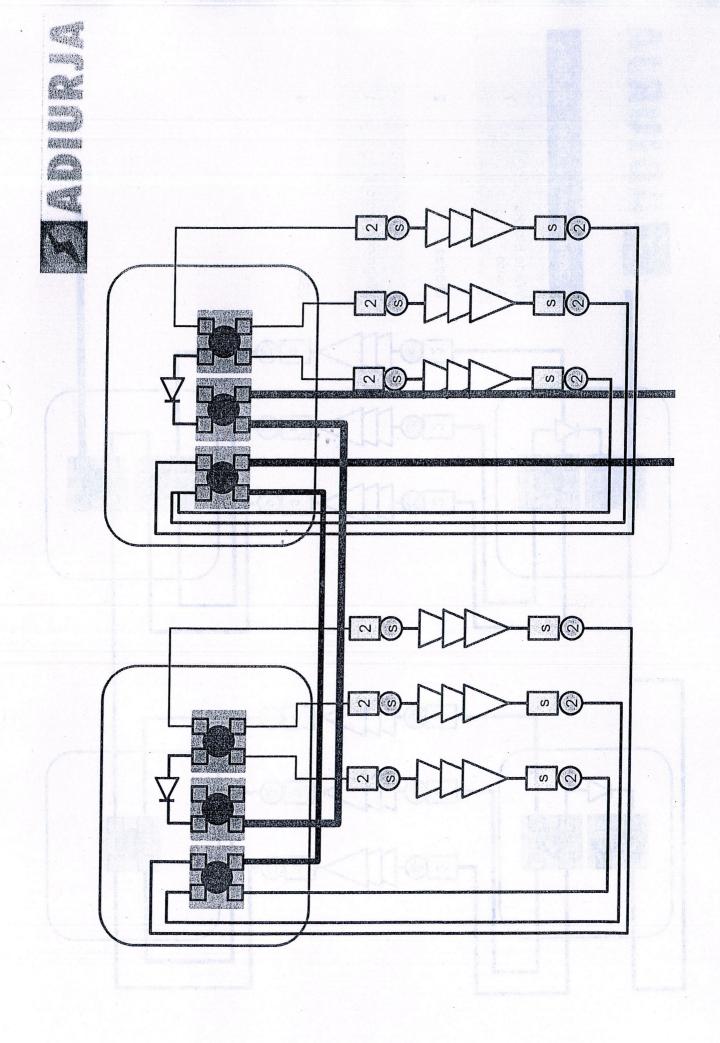
6 mm² cable drum x 2

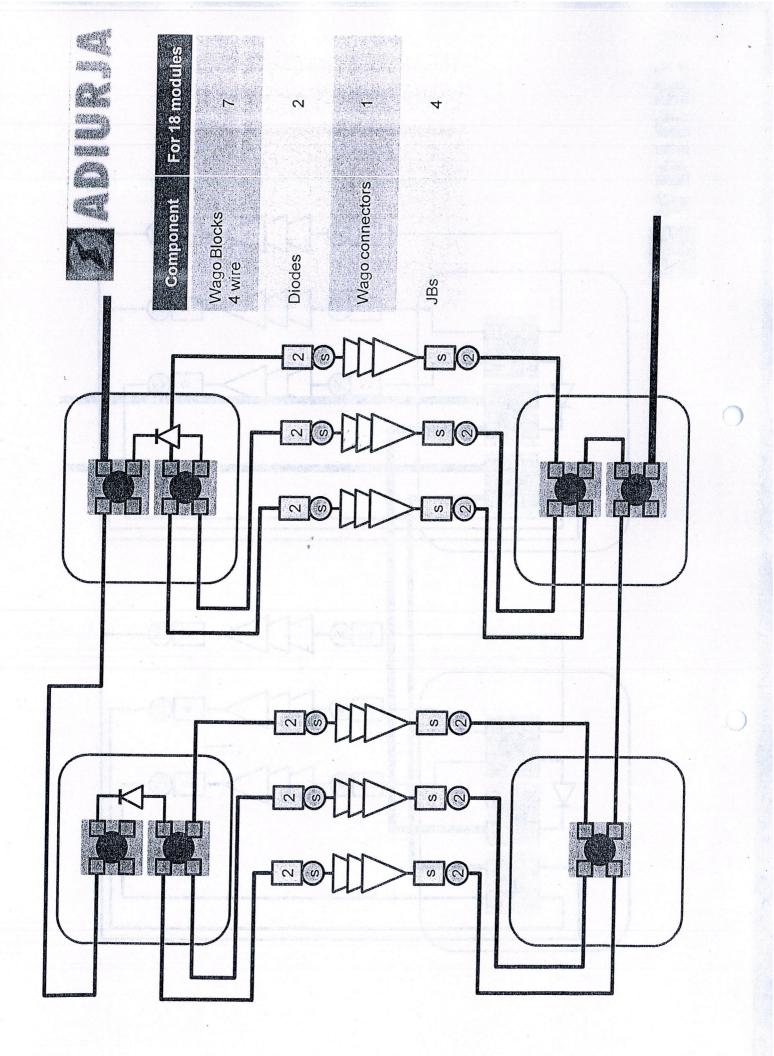


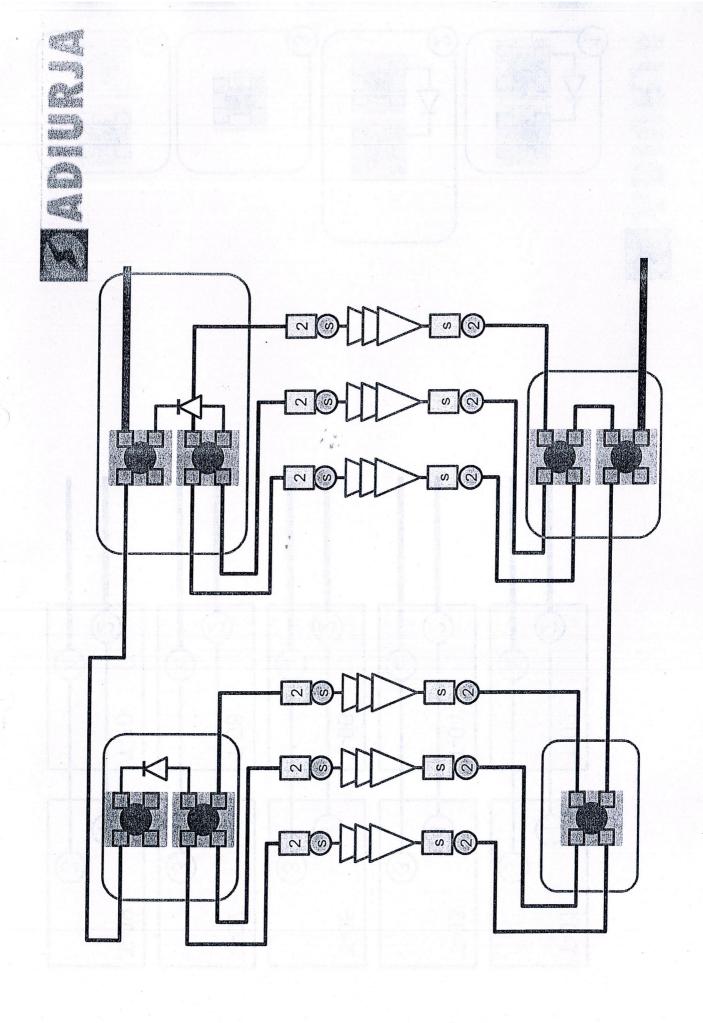


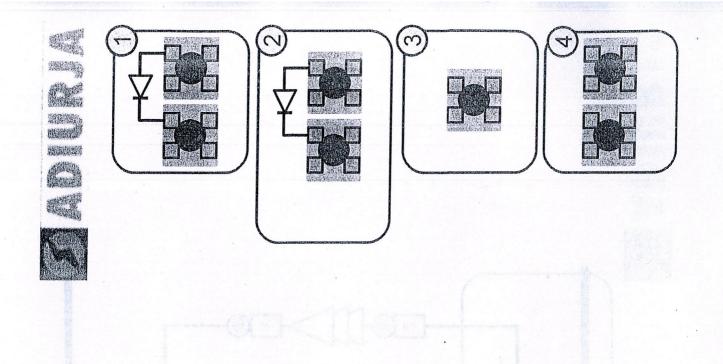


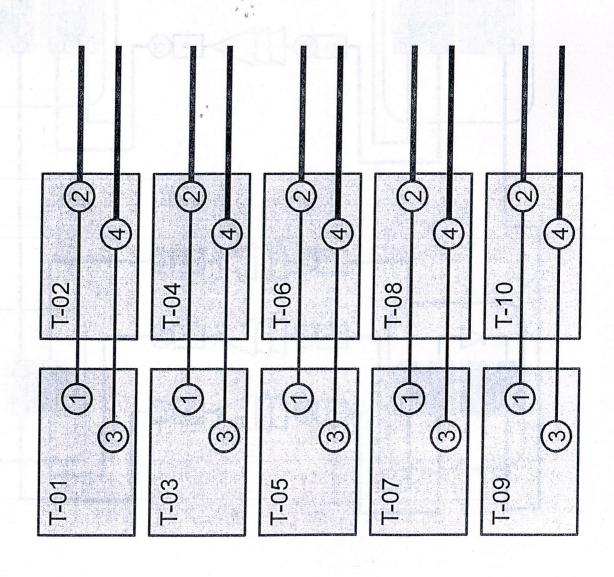












3:00 AM P	Maximum Series Fuse	10 . A	Bypass Diode
1000 V	124.47(+/-)5%w Maximum System Voltage	124.47(+/-)5%w	Maximum Power (Pmax)
1.16 A	Operating Current (Imp)	1.38A	Short circuit Current (Isc)
106.94V	Operating Voltage (Vmp)	137.65V	Open Circuit Votage (Voc)
Ш	at 1000 W/M2 SOLAR IRRADIANCE AND 25° CELL TEMPERATURE	V/M2 SOLAR IRRADIA	at 1000 \
	Electrical Rating	Electric	
	ORIGIN - Germany	ORIGIN	
	Model Type : MPV-M	Model Ty	
	MASDAR * PV	MASI	



FRONIUS INDIA PRIVATE LIMITED

DANINO AACCE17421	LCCT NO 274 ACCELTA	d, District Pune - 410501, Pune, I 3L1ZK STATE CODE: 27 STAT		4462				
Place of Supply: H	ead OF Elect	rical Englisher Code: 27 STATE CODE: 4 STATE CODE: 4 Mode of Designation of Desi	son: Coltol. Ghara	Delivery Note No.				
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of engineer	ring. At-post	- Velneshoar State Code:	2-A	3 200118				
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Reason for Delivery	sending	for Demo 1	auppose, Doe	30 not have				
any comm	n ordal v	ialie.						
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ITEM NO.		SCRIPTION	UNIT NO.	QUANTITY				
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(Sesial No. 23403131)				01.				
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YES NO	YES NO	7	Received the Above in Good Condition	Authorized by				
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				0				

Fronius India Pvt. Ltd.

GAT No. 312, Nanekarwadi, Chakan, Tal. Khed, District Pune, 410501 Pune

PAN No. AACCF1743L | VAT TIN No. 27540998654V | CST TIN No. 27540998654C | Service Tax Registration No. AACCF1743LSD001 ECC No. AACCF1743LED001 / AACCF1743LEI002 | Range-V (Chakan-V), Division-III (Chakan I), Commissionerate-Pune-II (Kolhapur)





DELIVERY NOTE-No:

9243 Original

from 19-06-2017

DELIVERY ADDRESS

INVOICE ADDRESS

IN-MUMBAI 400 080

Dr. Avinash M. Chincholkar Vidya Prasarak Mandal (VPM's) Maharshi Parshuram College of Engineering Velneshwar, Taluka Taluka:Guhagar 415727 RATNAGIR 9004690479 / 8275072488

MASS-TECH CONTROLS PVT LTD

2/7 MEGHAL INDUSTRIAL ESTATE DEVIDAYAL ROAD, MULUND WEST

Bitte K-Nr. 51056 verwenden

Customer-No: Your LST No.: Your CST No.:

500011 27220012728V 27220012728C

Your ECC No.: Division:

Range:

Customer P.O. No.: 23241625-Exchange CAS-443608-F1J9K3/2

Our Order-No:

590970

from

19-06-2017

Dispatch-No

0

Shipment:

Delivery Terms FOR Mumbai

Off. Mngr.: Davari Arjun Balu Repr.: 545010 Mukund Shendge

Solar Energy

Pos Item code / Description

Ordered Qty.

1.00/pc

Delivered Qty

1.00/pc

Back Order

0.00/pc

Replacement device for a faulty inverter with the serial number

1. Percust

The faulty inverter should be available for pick-up at the same address after 10 days about.

10 4,210,014,633A

Fronius IGPlus 150V-3 Repl INT Repl. Inverter Setup Region 2

Serial No.

: 23403131

Count. of Origin : AT_038 Austria

Statistical No : 85044088

Weight

49.000 kg

Warehouse

: 399 Central Warehouse non RG23D

Built in options:

11 44,0210,0147

1.00/pc

1.00/pc

0.00/pc

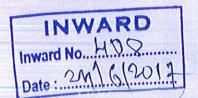
Setup IG Plus V EXC Int.

Count. of Origin : AT_038_Austria

Statistical No : 85049099

With this delivery note all shipments related to your purchase order are

Received found



Fronius India Pvt. Ltd.

GAT No. 312, Nanekarwadi, Chakan, Tal. Khed, District Pune, 410501 Pune

PAN No. AACCF1743L | VAT TIN No. 27540998654V | CST TIN No. 27540998654C | Service Tax Registration No. AACCF1743LSD001 ECC No. AACCF1743LED001 / AACCF1743LED002 | Range-V (Chakan-V), Division-III (Chakan I), Commissionerate-Pune-II (Kolhapur)



TAX INVOICE-No 218 /17000246 Original from 19-06-2017

Customer-No: Your LST No .:

500011 27220012728V

MASS-TECH CONTROLS PVT LTD 2/7 MEGHAL INDUSTRIAL ESTATE DEVIDAYAL ROAD, MULUND WEST

IN-MUMBAI 400 080

Dr. Avinash M. Chincholkar

Engineering Velneshwar, Taluka: Guhagar 415727

9004690479 / 8275072488

Vidya Prasarak Mandal (VPM's)

Maharshi Parshuram College of

DELIVERY ADDRESS

Bitte K-Nr. 51056 verwenden

Your CST No.: 27220012728C Your ECC No.:

Division:

Range:

Customer P.O. No.: 23235202-Exchange

CAS-443608-F1J9K3/3 Our Order-No:

590971 19-06-2017

from

Shipment:

Term of Delivery

FOR Mumbai

Off. Mngr.: Davari Arjun Balu Repr.: 545010 Mukund Shendge

Solar Energy

Item code / Description Pos

Qty/Unit

Price/pc Discount

net

delivery date = date of delivery note

Replacement device for a faulty inverter with the serial number

The faulty inverter should be available for pick-up at the same address after 10 days about.

DELIVERY NOTE-No: 9247 from 19-06-2017

10 4,210,014,633A

1.00 pc 259,000.00 pc 100.00%

0.00

Fronius IGPlus 150V-3 Repl INT

Repl. Inverter Setup Region 2 Serial No. : 24173486

Count. of Origin : AT 038 Austria

Statistical No : 85044088

. Weight 49.000 kg

Tax rate: : VAT 13.5%

Carry Forward INR:

0.00

Fronius India Pvt. Ltd.

GAT No. 312, Nanekarwadi, Chakan, Tal. Khed, District Pune, 410501 Pune

PAN No. AACCF1743L | VAT TIN No. 27540998654V | CST TIN No. 27540998654C | Service Tax Registration No. AACCF1743LSD001 ECC No. AACCF1743LED001 / AACCF1743LED002 | Range-V (Chakan-V), Division-III (Chakan I), Commissionerate-Pune-II (Kolhapur)



TAX INVOICE-No: 218 /17000246

Page

Item code / Description Pos

Qty/Unit

Price/pc Discount

net

Carry forward INR:

0.00

DELIVERY NOTE-No:

9247 from 19-06-2017



Goods Discount 259,000.00 259,000.00 Total INR 0.00

Payment Terms: 100% advance

Please reference invoice no.: 218/17000246

Bank Account: HSBC Bank, Bund Garden Branch, 411001 Pune Account Number: 105-794010-001, IFSC-Code HSBC0411002

Interest of 24% p.a. will be charged after payment due date.

I / We hereby certify that my / our registration certificate under the Maharashtra Value Added Tax Act, 2002 is in force on the date on which the sale of the goods specified in this tax invoice is made by me / us and that the transaction of sale covered by this tax invoice has been effected by me / us and it shall be accounted for in the turnover of sales while filing of return and the due tax, if any, payable on the sale has been paid or shall be paid.

Place of fulfillment: Chakan, Tal. Khed, Pune, 410501; Place of jurisdiction: Wels; Applicable law: Austrian law, the UN Convention for International Sales of Goods shall not be applicable.

Compensation for damages: if permitted by law, max. liability up to the quotation value.

The goods shall remain property of FRONIUS India Pvt. Ltd. until the payment has been received in full. The provisions of the General Terms and Conditions of FRONIUS India Pvt. Ltd. is applicable.

Incoterms in the respective current version.

The general terms of delivery and payment of Fronius India Pvt. Ltd. shall apply. The latest updates of our safety data sheets are available at www.fronius.com

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