

APPENDIX-8

SINGLE PHASE SMART STORAGE SOLAR INVERTER DATASHEET

INVERTER (W)		3000	5000	6000	8000	8000	10000	10000	12500	15000	20000	25000
A. SOLAR CHARGE CONTROLLER (SCC)												
1	Charger Type & Topology	Buck Type MPPT										
3	PV Total Nominal Capacity (W)	3000	5000	6000	8000	8000	10000	10000	12500	15000	20000	25000
4	No of MPPT Channels	1	1	1	1	1	1	1	1	1	1	1
5	Per Channel PV Capacity (W) (Nominal/ Peak)	3000/3300	5000/5500	6000/6600	8000/8800	8000/8800	10000/11000	10000/11000	12500/13375	15000/16050	20000/21400	25000/26750
6	Max. Open Circuit PV Volts (Voc)	165	320	320	320	320	320	620	620	620	620	620
7	MPPT Voltage Range (Volts)	66-137	132-266	132-266	132-266	165-266	165-266	330-515	330-515	330-515	330-515	330-515
8	PV Minimum Voltage (Volts)	53	106	106	106	132	132	264	264	264	264	264
9	Max I/P Amps per channel (Amps)	46	38	45	60	48	60	30	37	45	60	75
10	Max Battery Amps during PV charging (Amps)	47	39	47	63	51	63	31	39	47	63	79
11	Max SCC O/P (Amps)	54	45	54	72	58	72	36	45	54	72	91
12	Battery type Supported	LMLA, VRLA, Tub Gel VRLA										
13	Min. Battery AH Required (AH)	120	120	120	120	120	120	120	120	120	120	120
14	Peak Charging Efficiency (%)	92	92	92	92	92	92	92	92	92	92	92
B. SOLAR INVERTER												
1	No of Phases/Connection Type	1-phase/2 wire	1-phase/2 wire	1-phase/2 wire	1-phase/2 wire	1-phase/2 wire	1-phase/2 wire	1-phase/2 wire	1-phase/2 wire	1-phase/2 wire	1-phase/2 wire	1-phase/2 wire
2	Nominal Battery Voltage (Volts)	48	96	96	96	120	120	240	240	240	240	240
3	Nominal Output Voltage/ Frequency (Volts/ Hz)	240/50	240/50	240/50	240/50	240/50	240/50	240/50	240/50	240/50	240/50	240/50
5	Nominal Capacity (W) (Total/ Per Phase)(*4)	3000/3000	5000/5000	6000/6000	8000/8000	8000/8000	10000/10000	10000/10000	12500/12500	15000/15000	20000/20000	25000/25000
6	Output Amps per Phase (*4)	13	21	25	34	34	42	42	52	63	84	104
7	Voltage Regulation (in Standalone Mode)	+/- 2 %	+/- 2 %	+/- 2 %	+/- 2 %	+/- 2 %	+/- 2 %	+/- 2 %	+/- 2 %	+/- 2 %	+/- 2 %	+/- 2 %
8	Freq. Regulation (in Standalone Mode)	+/- 0.5 Hz	+/- 0.5 Hz	+/- 0.5 Hz	+/- 0.5 Hz	+/- 0.5 Hz	+/- 0.5 Hz	+/- 0.5 Hz	+/- 0.5 Hz	+/- 0.5 Hz	+/- 0.5 Hz	+/- 0.5 Hz
9	THD	< than 5 %	< than 5 %	< than 5 %	< than 5 %	< than 5 %	< than 5 %	< than 5 %	< than 5 %	< than 5 %	< than 5 %	< than 5 %
10	Load Power Factor	0.8 lag to unity	0.8 lag to unity	0.8 lag to unity	0.8 lag to unity	0.8 lag to unity	0.8 lag to unity	0.8 lag to unity	0.8 lag to unity	0.8 lag to unity	0.8 lag to unity	0.8 lag to unity
11	Efficiency (%): Peak/ 100% Load/20% Load	>90/ >89/ >80	>90/ >89/ >80	>90/ >89/ >80	>90/ >89/ >80	>90/ >89/ >80	>90/ >89/ >80	>90/ >89/ >80	>90/ >89/ >80	>90/ >89/ >80	>90/ >89/ >80	>90/ >89/ >80
12	Over Loads (%): 60 sec/ 30 sec/ 5 sec*	110/ 125/ 150	110/ 125/ 150	110/ 125/ 150	110/ 125/ 150	110/ 125/ 150	110/ 125/ 150	110/ 125/ 150	110/ 125/ 150	110/ 125/ 150	110/ 125/ 150	110/ 125/ 150
13	Max Allowed Phase Imbalance (%)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
14	Auto Bypass Feature(*3)	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
16	Parallel Operation with Grid/ DG	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
16	Power Export to Grid Facility	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
17	Anti Islanding from Grid	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
C. GRID CHARGER												
1	Grid Voltage Range (Voltage Sync. Range)	+10 % -20 %	+10 % -20 %	+10 % -20 %	+10 % -20 %	+10 % -20 %	+10 % -20 %	+10 % -20 %	+10 % -20 %	+10 % -20 %	+10 % -20 %	+10 % -20 %
2	Grid Frequency range (Freq. Sync Range)	+5% & -5%	+5% & -5%	+5% & -5%	+5% & -5%	+5% & -5%	+5% & -5%	+5% & -5%	+5% & -5%	+5% & -5%	+5% & -5%	+5% & -5%
3	Max Grid Import Power (W)	3000	5000	6000	8000	8000	10000	10000	12500	15000	20000	25000
4	Max Battery Amps during Grid charging (Amps)	40	34	40	54	43	54	27	34	40	54	68
5	Peak Charging Efficiency (%)	>80	>80	>80	>80	>80	>80	>80	>80	>80	>80	>80

NOTE (*) Overload protection at load end is applicable only in Standalone mode. (*3) Auto Bypass does not ensure complete bypass of the grid supply to loads. (*4) valid at unity power factor

INVERTER RATING (W)		3000	5000	6000	8000	8000	10000	10000	12500	15000	20000	25000	
D. PROTECTIONS													
1	PV Side	Reverse Polarity, Surge Protection (Class D)											
2	Battery Side	Reverse Polarity, Over/ Under Voltage, Current Limit											
3	Grid Side	Over/ under Voltage, Over/ Under Frequency, Surge Protection (Class D)											
4	Load Side	Overloads, Short circuit											
5	System Protection	Over Temperature											
E. USER INTERFACE													
1. DISPLAYED PARAMETERS													
1	Battery Side	Voltage, Current											
2	PV Side	Voltage**, Current**, Power**, Energy**, MPPT Charger O/P Amps											
3	Grid Side	Phase Voltage, Phase Power, Frequency, Power factor											
4	Load Side	Phase Voltage, Phase Power, Frequency, Power Factor											
5	System level	Mode of Operation, Active Faults, Heat Sink/ IGBT temperature, System Mimic											
<i>NOTE:** parameters provided on separate LCD display for each MPPT channel(optional).</i>													
2. INDICATIONS/ AUXILIARY													
1	Indications:	Mains On, Alarm, Buzzer Mute											
2	User Keypad for Settings Change.	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
3	Breakers at all Inputs	✓	✓	✓	✓	✓	✓	□	□	□	□	□	
4	Remote monitoring: Optional*	□	□	□	□	□	□	□	□	□	□	□	
<i>NOTE (*) All parameters on display can be remotely accessed via GPRS or MODBUS over RS485</i>													
F. MISCELLANEOUS													
1	Degree Of Protection	IP-21	IP-21	IP-21	IP-31	IP-31	IP-31	IP-31	IP-31	IP-31	IP-31	IP-31	
2	Cooling Method	Temp Controlled Force Cooling											
3	Opearting Temperature (without Derating)	0-55 degrees (without De-rating)											
4	Humidity (Non-Condensing)	Max. 95% Non-Condensing											
5	Altitude (above sea level)	1000m above sea level											
6	Housing	Sheet Metal, Tower Type				Sheet Metal, Floor Standing, Front/ Rear Door							
7	Color shade	Semi Structure orange		Black		Light Gray (RAL□7035)/Red(RAL□3020)							
8	Cable Entry	Bottom											
9	Cable Termination Type	Bus Bar Type with ring type lugs											
10	Terminal Sizes (PV/ Battery/ Grid/ Load)	M5 / M5 / M5 / M5				M6 / M6 / M6 / M6							
11	Dimensions in mm (H X W X D)	425 X 375 X 525		650X 375 X 625		1025X600X625					1450X800X800		
12	Approx Weight(kg)	70	96	105	156	160	165	170	190	170	245	265	

APPENDIX-9

THREE PHASE SMART STORAGE SOLAR INVERTER DATASHEET

INVERTER RATING (W)	10000	10000	12500	12500	15000	15000	20000	20000	25000	30000	
A. SOLAR CHARGE CONTROLLER (SCC)											
1	Charger Type & Topology Buck Type MPPT										
3	PV Total Nominal Capacity (W)	10000	10000	12500	12500	15000	15000	20000	20000	25000	30000
4	No of MPPT Channels	1	1	1	1	1	1	1	1	1	1
5	Per Channel PV Capacity (w) (Nominal/ Peak)	10000/11000	10000/11000	12500/13375	12500/13376	15000/16050	15000/16050	20000/21400	20000/21400	25000/26750	30000/32100
6	Max. Open Circuit PV Volts (Voc)	320	620	320	620	320	620	320	620	620	620
7	MPPT Voltage Range (Volts)	165-266	330-515	165-266	330-515	165-266	330-515	165-266	330-515	330-515	330-515
8	PV Minimum Voltage (Volts)	132	264	132	264	132	264	132	264	264	264
9	Max I/P Amps per channel (Amps)	60	30	75	38	90	45	121	60	75	90
10	Max Battery Amps during PV charging (Amps)	63	31	79	39	95	47	127	63	79	95
11	Max SCC O/P (Amps)	72	36	91	45	109	54	145	72	91	109
12	Battery type Supported	LMLA, VRLA, Tub Gel VRLA									
13	Min. Battery AH Required (AH)	300	300	300	300	300	300	300	300	300	300
14	Peak Charging Efficiency (%)	92	92	92	92	92	92	92	92	92	92
B. SOLAR INVERTER											
1	No of Phases/Connection Type	3-Phase/4 wire	3-Phase/4 wire	3-Phase/4 wire	3-Phase/4 wire	3-Phase/4 wire	3-Phase/4 wire	3-Phase/4 wire	3-Phase/4 wire	3-Phase/4 wire	3-Phase/4 wire
2	Nominal Battery Voltage (Volts)	120	240	120	240	120	240	120	240	240	240
3	Nominal Output Voltage/ Frequency (Volts/ Hz)	415 / 50	415/50	415/50	415/50	415/50	415/50	415/50	415/50	415/50	415/50
5	Nominal kW Capacity (W) (Total/ Per Phase)(*4)	10000/3400	10000/3400	12500/4200	12500/4200	15000/5000	15000/5000	20000/7000	20000/7000	25000/8300	30000/10000
6	Output Amps per Phase (*4)	13	13	18	18	21	21	30	30	34	42
7	Voltage Regulation (in Standalone Mode)	+/- 2 %	+/- 2 %	+/- 2 %	+/- 2 %	+/- 2 %	+/- 2 %	+/- 2 %	+/- 2 %	+/- 2 %	+/- 2 %
8	Freq. Regulation (in Standalone Mode)	+/- 0.5 Hz	+/- 0.5 Hz	+/- 0.5 Hz	+/- 0.5 Hz	+/- 0.5 Hz	+/- 0.5 Hz	+/- 0.5 Hz	+/- 0.5 Hz	+/- 0.5 Hz	+/- 0.5 Hz
9	THD	< than 5 %	< than 5 %	< than 5 %	< than 5 %	< than 5 %	< than 5 %	< than 5 %	< than 5 %	< than 5 %	< than 5 %
10	Load Power Factor	0.8 lag to unity	0.8 lag to unity	0.8 lag to unity	0.8 lag to unity	0.8 lag to unity	0.8 lag to unity	0.8 lag to unity	0.8 lag to unity	0.8 lag to unity	0.8 lag to unity
11	Efficiency (%): Peak/ 100% Load/20% Load	>90/ >89/ >80	>90/ >89/ >80	>90/ >89/ >80	>90/ >89/ >80	>90/ >89/ >80	>90/ >89/ >80	>90/ >89/ >80	>90/ >89/ >80	>90/ >89/ >80	>90/ >89/ >80
12	Over Loads (%): 60 sec/ 30 sec/ 5 sec*	110/ 125/ 150	110/ 125/ 150	110/ 125/ 150	110/ 125/ 150	110/ 125/ 150	110/ 125/ 150	110/125/150	110/125/150	110/125/150	110/125/150
13	Max Allowed Phase Imbalance (%)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
14	Auto Bypass Feature(*3)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
16	Parallel Operation with Grid/ DG	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
16	Power Export to Grid Facility	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
17	Anti Islanding from Grid	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
C. GRID CHARGER											
1	Grid Voltage Range (Voltage Sync. Range)	+10 % & -20 %	+10% & 20 %	+10% & 20 %	+10% & 20 %	+10% & 20 %	+10% & 20 %	+10% & 20 %	+10% & 20 %	+10% & 20 %	+10% & 20 %
2	Grid Frequency range (Freq. Sync Range)	+5% & -5%	+5% & -5%	+5% & -5%	+5% & -5%	+5% & -5%	+5% & -5%	+5% & -5%	+5% & -5%	+5% & -5%	+5% & -5%
3	Max Grid Import Power (W)	10000	10000	12500	12500	15000	15000	20000	20000	25000	30000
4	Max Battery Amps during Grid charging (Amps)	54	27	68	34	81	40	108	54	68	81
5	Peak Charging Efficiency (%)	>80	>80	>80	>80	>80	>80	>80	>80	>80	>80

NOTE (*) Overload protection at load end is applicable only in Standalone mode. (*3) Auto Bypass does not ensure complete bypass of the grid supply to loads. (*4) valid at unity power factor

INVERTER (W)		100000	100000	12500	12500	15000	15000	20000	20000	25000	30000
1	PV Side:	Reverse Polarity, Surge Protection (Class D)									
2	Battery Side:	Reverse Polarity, Over/ Under Voltage, Current Limit <input type="checkbox"/>									
3	Grid Side:	Over/ under Voltage, Over/ Under Frequency, Surge Protection (Class D)									
4	Load Side:	Overloads, Short circuit									
5	System Protection:	Over Temperature									

1. DISPLAYED PARAMETERS

1	Battery Side	Voltage, Current									
2	PV Side	Voltage**, Current**, Power**, Energy**, MPPT Charger O/P Amps									
3	Grid Side	Phase Voltage, Phase Power, Frequency, Power Factor									
4	Load Side	Phase Voltage, Phase Power, Frequency, Power Factor									
5	System level	Mode of Operation, Active Faults, Heat Sink/ IGBT temperature, System Mimic									

NOTE: parameters provided on separate LCD display for each MPPT channel.**

2. INDICATIONS/ AUXILIARY

1	Indications:	Mains On, Alarm, Buzzer Mute.									
2	User Keypad for Settings Change.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3	Breakers at all Inputs/ Space Heater/ Emergency stop Button.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4	Remote monitoring: Optional*	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

NOTE (*) All parameters on display can be remotely accessed via GPRS or MODBUS over RS485

F. MISCELLANEOUS

1	Degree Of Protection	IP-31	IP-31	IP-31	IP-31	IP-31	IP-31	IP-31	IP-31	IP-31	IP-31		
2	Cooling Method	Temp Controlled Force Cooling											
3	Operating Temperature (without De-rating)	0-55 degrees (without De-rating)											
4	Humidity (Non-Condensing)	Max. 95% Non-Condensing											
5	Altitude (above sea level)	1000m above sea level											
6	Housing	Sheet Metal, Floor Standing, Front/ Rear Door											
7	Colour shade	RAL-3020/RAL7035											
8	Cable Entry	Bottom											
9	Cable Termination Type	Bus Bar Type with ring type lugs											
10	Terminal Sizes (PV/ Battery/ Grid/ Load)	M6/ M6 /M6/ M6											
11	Dimensions in mm (H X W X D)	1450 X800 X 800								1525x850x850			
12	Approx Weight(kg)	307	310	320	325	328	325	438	355	392	420		

THREE SMART STORAGE SOLAR INVERTER DATASHEET

INVERTER RATING (W)		40000	50000	60000	80000	100000	200000
A. SOLAR CHARGE CONTROLLER (SCC)							
1	Charger Type & Topology	Buck Type MPPT					
3	PV Total Nominal Capacity (W)	40000	50000	60000	80000	100000	200000
4	No of MPPT Channels	1	1	3	3	3	3
5	Per Channel PV Capacity (W) (Nominal/ Peak)	40000/42800	50000/53500	20000/21400	26667/2853369	33334/3566738	666670/71.33369
6	Max. Open Circuit PV Volts (Voc)	620	620	620	620	620	750
7	MPPT Voltage Range (Volts)	330-515	330-515	330-515	330-515	330-515	495-623
8	PV Minimum Voltage (Volts)	264	264	264	264	264	395
9	Max I/P Amps per channel (Amps)	121	151	61	81	103	134
10	Max Battery Amps during PV charging (Amps)	127	159	63	85	106	142
11	Max SCC O/P (Amps)	145	182	72	97	121	161
12	Battery type Supported	LMLA, VRLA, Tub Gel VRLA					
13	Min. Battery AH Required (AH)	300	300	300	300	300	300
14	Peak Charging Efficiency (%)	92	92	92	92	92	92
B. SOLAR INVERTER							
1	No of Phases/Connection Type	3-Phase/4 wire	3-Phase/4 wire	3-Phase/4 wire	3-Phase/4 wire	3-Phase/4 wire	3-Phase/4 wire
2	Nominal Battery Voltage (Volts)	240	240	240	240	240	360
3	Nominal Output Voltage/ Frequency (Volts/ Hz)	415/50	415/50	415/50	415/50	415/50	415/50
4	Nominal Capacity (W) (Total/ Per Phase)(*4)	40000/13000	50000/17000	60000/20000	80000/27000	100000/33000	200000/67000
5	Output Amps per Phase (*4)	55	71	84	113	138	280
6	Voltage Regulation (in Standalone Mode)	+/- 2 %	+/- 2 %	+/- 2 %	+/- 2 %	+/- 2 %	+/- 2 %
7	Freq. Regulation (in Standalone Mode)	+/- 0.5 Hz	+/- 0.5 Hz	+/- 0.5 Hz	+/- 0.5 Hz	+/- 0.5 Hz	+/- 0.5 Hz
8	THD	< than 5 %	< than 5 %	< than 5 %	< than 5 %	< than 5 %	< than 5 %
9	Load Power Factor	0.8 lag to unity	0.8 lag to unity	0.8 lag to unity	0.8 lag to unity	0.8 lag to unity	0.8 lag to unity
10	Efficiency (%): Peak/ 100% Load/20% Load	>90/ >89/ >80	>90/ >89/ >80	>90/ >89/ >80	>90/ >89/ >80	>90/ >89/ >80	>90/ >89/ >80
11	Over Loads (%): 60 sec/ 30 sec/ 5 sec*	110/ 125/ 150	110/ 125/ 150	110/ 125/ 150	110/ 125/ 150	110/ 125/ 150	110/ 125/ 150
12	Max Allowed Phase Imbalance (%)	NA	NA	NA	NA	NA	NA
13	Auto Bypass Feature(*3)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
14	Parallel Operation with Grid/ DG	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
15	Power Export to Grid Facility	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
16	Anti Islanding from Grid	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
C. GRID CHARGER							
1	Grid Voltage Range (Voltage Sync. Range)	+10 % & 20 %	+10 % & 20 %	+10 % & 20 %	+10 % & 20 %	+10 % & 20 %	+10 % & 20 %
2	Grid Frequency range (Freq. Sync Range)	+5% & -5%	+5% & -5%	+5% & -5%	+5% & -5%	+5% & -5%	+5% & -5%
3	Max Grid Import Power (W)	40000	50000	60000	80000	100000	200000
4	Max Battery Amps during Grid charging (Amps)	108	136	163	217	272	362
5	Peak Charging Efficiency (%)	>80	>80	>80	>80	>80	>80

NOTE (*) Overload protection at load end is applicable only in Standalone mode. (*3) Auto Bypass does not ensure complete bypass of the grid supply to loads. (*4) valid at unity power factor

INVERTER RATING (W)		40000	50000	60000	80000	100000	200000
E. USER INTERFACE							
1. DISPLAYED PARAMETERS							
1	Battery Side	Voltage, Current					
2	PV Side	Voltage**, Current**, Power**, Energy**, MPPT Charger O/P Amps					
3	Grid Side	Phase Voltage, Phase Power, Frequency, Power Factor					
4	Load Side	Phase Voltage, Phase Power, Frequency, Power Factor					
5	System level	Mode of Operation, Active Faults, Heat Sink/ IGBT temperature, System Mimic					
<i>NOTE:** parameters provided on separate LCD display for each MPPT channel.</i>							
2. INDICATIONS/ AUXILIARY							
1	Indications:	Mains On, Alarm, Buzzer Mute.					
2	User Keypad for Settings Change.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3	Breakers at all Inputs/ Space Heater/ Emergency stop Button.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4	Remote monitoring: Optional*	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<i>NOTE (*) All parameters on display can be remotely accessed via GPRS or MODBUS over RS485</i>							
F. MISCELLANEOUS							
1	Degree Of Protection	IP-31	IP-31	IP-31	IP-31	IP-31	IP-31
2	Cooling Method	Temp Controlled Force Cooling					
3	Operating Temperature (without De-rating)	0-55 degrees (without Derating)					
4	Humidity (Non-Condensing)	Max. 95% Non-Condensing					
5	Altitude (above sea level)	1000m above sea level					
6	Housing	Sheet Metal, Floor Standing, Front/ Rear Door					
7	Color shade	RAL-3020/RAL7035					
8	Cable Entry	Bottom					
9	Cable Termination Type	Bus Bar Type with ring type lugs					
10	Terminal Sizes (PV/ Battery/ Grid/ Load)	M6/ M6/ M6 /M6	M6/ M8/ M6 /M6	M6/ M8/ M6 /M8	M8/ M8/ M8 /M8	M8/ M8/ M8 /M8	M8/ M8/ M8 /M8
11	Dimensions in mm (H X W X D)	1525X850X850	1950X1200X800		2250X1200X1200		2250X1400X1200
12	Weight(kg)	495	689	750	850	1120	