



Single Phase Off Grid Solar PCU 2 kVA - 50 kVA



SALIENT PRODUCT FEATURES

- MNRE-approved, MPPT-based system
- Tested as per IEC 61683, IEC 61727, EN 50530 and IEC 60068 (1, 2, 14, 30)
- Active front-end charger
- Low input current distortion
- Remote device monitoring available
- Local device monitoring on RS-232
- Over 5 MW of systems successfully supplied
- > 90% system efficiency
- Can be upgraded to grid export Hybrid PCU at any time
- Compatible with all types of batteries

STRENGTHS OF POWTECH

- 36 years of excellence in industrial electronics
- ISO 9001 and ISO 14001 certified company
- Nationwide sales and service
- In-house R & D
- Products designed for and extensively tested in Indian conditions

APPLICATIONS

- Rural Electrification
- Remote Sites
- Farmhouses, Schools, Offices
- Rural Health
 Schemes
- Telecom, Oil & Gas pipelines
- Defence

KWH Basic Series Datasheet

INVERTER RATING (KVA)	1KVA 2KVA	3KVA	5KVA	5KVA	7.5KVA	10KVA	15KVA	20KVA	25KVA	30KVA	40KVA 5	50KVA
A . SOLARCHARGE CONTROLLER (SCC)	ZIVI ZIVI	Siteri	Sitt	Siter	7.DICE7C	201171	25/(1/)	LUNG	London	SURVI	-tolleri 5	- CREAT
1 ChargerType & Topology					Buck	Type MPPT				_		
2 PV Total Nominal Capacity (KVA)	1KW 2KW	3KW	5KW	5KW	7.5KW	10KW	15KW	20KW	25KW	30KW	40KW 5	50KW
3 No. of MPPT Channels	1 1 1	1	1	1	1 1	1	1	1	1	1	1	1
4 Per Channel PV Capacity (w)(Nominal Peak)	1KW/1.1KW 2KW/2.2K	W 3KW/3.3KW	5KW/5.5KW	5KW/5.5KW	7.5KW/8.2KW	10KW/11KW	15KW/16.5KW	20KW/22KW	25KW/27.5KV	V 30KW/33KW 4	KW/44KW 50K	(W/55KV
5 Max. open Circuit PV Volts (Voc)	240 240	240	240	300	300	400	700	700	700	700	700	700
6 MPPT Voltage Range (Volts)	70-240 70-240	70-240	70-240	96-300	96-300	140-400	240 - 700	240 - 700	240 - 700	240 - 700	240 - 700 24	40 - 700
7 PV Minimum Voltage (Volts)	48 48	48	48	96	96	120	240	240	240	240	240	240
8 Max. I/P Amps per channel (Amps)	15 30	45	75	35	55	60	45	60	75	80	105	132
9 Max. Battery Amps during PV Charging(Amps)	20 40	60	100	50	73	78	60	78	80	97		161
10 Max. SCC O/P (Amps)	20 40	60	100	50	73	78	60	78	80	97	129	161
11 Patters time Supported	'	'	1	1	\/DLA / LMLA/I	i-lon/Li-Ph (User	Cottable)	1	1			
11 Battery type Supported						,	,					
12 Min. Battery AH (Suggested)	150 150	150	150	150	150	150	300	300	300	300	300	300
13 Peak charging Efficiency (%)						>93						
B. SOLAR INVERTER												
1 No. of Phases/Connection Type					1-Ph	ased/2 wire						
2 Nominal Battery Voltage (Volts)	48 48	48	48	96	96	120	240	240	240	240	240	240
3 Battery Ripple	70 70	1 ***	1 10] 00		.A/ 1% for Li-lon & Li	1	240	240	240	240	240
4 Nominal Output Voltage/Frequency (Volts/Hz)						230/50	- I II Dallery					
5 Nominal KVA Capacity (KVA)	1KVA 2KVA	3KVA	5KVA	5KVA	7.5KVA	10KVA	15KVA	20KVA	25KVA	30KVA	40KVA 5	50KVA
6 Output Amps	3.47 6.96	10.43	17.39	17.39	26.09	34.78	52.17	69.57	86.96	104.3		173.9
7 Voltage Regulation (in standalore Mode)	0.90	10.43	11.39	11.08	20.03	34.78 ±2%	32.11	09.07	00.30	104.0	100.1	110.0
8 Freq. Regulation (in Standalone mode)						± 2% ± 0.5 Hz						
9 THD						± 0.5 HZ < 3%						
10 Load Power Factor					0.0							
11 Efficiency (%): Peak/ 100% Load/25% Load	>89/ >88/ >86 >89/ >88/ >	89/>88/>86	>90/>87/>86	>90/>87/>86	>90/>87/>86	lag to unity >89/>89/>86	>89/>89/>86	>89/>89/>86	>89/>89/>86	>91/>89/>86 >	91/>89/>86 >91/	1/>89/>86
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12 13 Over Loads :						110% - 60 sec 125% - 30 sec				-		
14 Over Loads .						-150% - 50 sec				-		
15 Max Allowed Phase Imbalance (%)					123	N/A						
16 Auto Bypass Feature						rovided						
C. GRID CHARGER					,	TOVIGOU						
Grid Voltage Range (Voltage Sync. Range)					160V-280\	/ (Phase to Neutr	ral)			_		
2 Grid Frequency Range (Freq. Sync. Range)) Hz ±5%	,					
3 Max Grid Import Power (KVA)	1KVA 2KVA	3KVA	5KVA	5KVA	7.5KVA	10KVA	15KVA	20KVA	25KVA	30KVA	40KVA 5	50KVA
4 Max Battery Amps During Grid Charging (Amps)	13 27	40	68	34	51	54	40	54	68	72.5		120.8
5 Peak charging Efficiency (%)		1				>87						
	'											
INVERTER (KW)	0.8 1.6	2.4	4.0	4.0	6.0	8.0	12.0	16.0	20.0	24.0	32.0	40.0
1 PV Side						arity , Surg Prote						
2 Battery Side					verse Polarity, Ov							
3 Grid Side				Over/Under V	oltage, Over/Und	er Frequency ,An	ti-Islanding,Surg	Protection				
4 Load Side					Overloa	ds, Short circuit						
5 System Protection					Overloa emperature.Trip,B		uts,Emergency st					
5 System Protection D. USER INTERFACE					emperature.Trip,B	reakers at all Inp						
5 System Protection D. USER INTERFACE 1. DISPLAY INTERFACE					emperature.Trip,B							
5 System Protection D. USER INTERFACE 1. DISPLAY INTERFACE 2. DISPLAYED PARAMETERS				Over T	emperature.Trip,B	reakers at all Inpo	AY	ор				
5 System Protection D. USER INTERFACE 1. DISPLAY INTERFACE 2. DISPLAYED PARAMETERS 1 Battery Parameters		Volta	ge, Charging Curre	Over T	emperature.Trip,B LCD NU Current,AH-in,AH-c	reakers at all Inpo MERICAL DISPL out, Cumulative Al	.AY H-in,Cumulative A	ор	state-charging	/Discharging.		
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