KWH Premium Pro Series

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SALIENT PRODUCT FEATURES

- MNRE-approved, MPPT-based system
- Tested as per IEC 61683, IEC 61727, EN 50530 and IEC 62116 / IS 16169, IEC 60068 (1, 2, 14, 30)

- Active front-end charger
- Low input current distortion
- Remote device monitoring available
- Live device monitoring on RS-232
- Over 5 MW of systems successfully supplied
- > 93% system efficiency
- Compatible with all types of batteries
- Can be configured as an Off-Grid system
- Peak demand management
- Wi-Fi enabled data through mobile application
- Insensitive to Input Grid phase sequence

STRENGTHS OF POWTECH

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- 36 years of excellence in industrial electronics
- ISO 9001 and ISO 14001 certified company
- Nationwide sales and service
- In-house R & D

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> Products designed for and extensively tested in Indian conditions

APPLICATIONS

KWH

- Rural Electrification
- Remote Sites

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- Farmhouses, Schools, Offices
- Rural Health Schemes
- Telecom, Oil & Gas pipelines
- Defence
- Industrial applications
- Hospitals, Cold stores
- Mini grid

KWH Premium Series Datasheet

INVERTER RATING (ICLA)	100/A 100/A	12.5WA	12.90VA	15NA	150A	200/A	200/A	25KVA 3	0XVA 40XVA	SOLUA	SOIVA	60KVA	806VA	330KVA	109KVA	120104	1500/4
A . SOLAR CHARGE CONTROLLER (SCC)								Durk Tree MORT									
1 ChargerType & Topplogy	100V 100V	12.500	12.50N	15(W	1500	2010	1 mm	Buck Type MPPT 25KW 3		5000	500W	60001	00.00	MODULE .	10/864	120541	1004
2 PJ Tutal Nominal Capacity (KIN) 3 No. of MPPT Channels	100W 190W	1	12500	1500	1	1	2008		1 2	2	2	2	800%	1090W	3006/97	120KW	150KW
4 Per Channel PV Capacity (w) Nominal Peak)	10KW/11KN 10KK/11K			154W/1656W	15KW/16.5KW	20KW/22KW	2001/2201		1 2 N(33KW 40KW)44K			2 BOKN/BBKN	400//440/	3 33.3K/A/35.6K/A	33.3KW/36.6K		3 50KW(55KW
5 Max. open Circuit Pil'Ibits (Voc)	320 620	320	60	320	620	320	660		660 660	660	900	900	900	550 560	900	900	900
6 MPPT Voltage Range (Volts)	175-310 350-550		350-550	175-320	350-550	175-310	240-660		10-660 240-660	240-660	350.900	360-900	360-900	240-660	360-900	360-900	360-900
7 PV Minimum Voltage (Volts)	140 180	140	280	140	280	140	240		240 240	240	360	360	360	340	360	360	360
8 Max. I/P Amps per channel (Amps)	60 30	75	35	90	5	120	60		90 70	75	70	83	110	100	92.5	80	100
9 Max. Battery Amps during PV Charging (Amps)	80 40	100	50	120	60	155	80		125 135	195	115	135	170	318	211	104	130
10 Max. SCC 0/P (Amps)	80 40	100	50	120	60	155	80		115 135	195	125	135	170	308	211	104	130
		1			1	1		1		1	1						
11 Battery type Supported							UNDA/ U	MLA/U-Ion/UFePo4 (I	User Settable)								
12 Min. Buttery AH (Suggested)	300 300	300	300	300	300	300	300	300	300 300	300	300	300	300	300	300	300	300
13 Peak charging Efficiency (%)					×93									朔			
B. SOLAR INVERTER																	
1 No. of Phases/Connection Type								3.Phased/4 wire									
 Respired Pattern Holman Probability 		1			1		I			1	I			1.et	Mit		10
2 Nominal Battery Votage (Vots)	23 30	120	240	120	20	120	240		30 30	340	340	30	360	20	39	390	360
3 Nominal Dutput Voltage/Frequency (Victo/He)		1			1	1		415/50		1							
4 Nominal KW Capacity (KN) (Total Per Phase)(*4)	84/27 84/27	204(3.3	110/93	12.04.0	12.040	16053	16053		4080 32/87	403/133	41(2)33	415	64/21.3	804263	80005.1	96(32.0	1210/400
S Output Amps per Phase (14)	11.6 11.6	945	145	123	134	282	32		343 464	57.9	57.9	85	99	153	TSS	1991	173.9
6 Voltage Regulation (in standalore Mode) 7 Freq. Regulation (in Standalone mode)								:25									
								±15%									
8 THD 9 Load PowerFactor								<3i									
9 Load Power Factor 10 Efficiency (%): Peak/ 100% Load/25% Load			geometric .	م نیر بین	م نم نو	م نعینوں	ا منعنها	Vindgelli water and	asian Lanuari	م سر	l anariar	م نیز اور	40.40.4	100-001-00	مر العن العن	303630	100-00-00
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12 Overlaads:								10-129-10 or 11-129-10 or									
12 wer 12025 :								15-158-5 m									
14 Max Allowed Phase Inbalance (%)								AD DAR-SHE									
15 Auto Bypers Feature								Provided									
16 Parallel Operation with Grid/DG								Provided									
17 Power Export to Grid Facility Enable / Disable							D.	rable / Disable jUser S	attable)								
18 Anti Islanding from Srid							0	Provided	Olders)								
C GRID CHURGER								1101010									
1 Grid Voltage Range (Voltage Sync. Range)								60/-280/ (Phase to N	atal								
2 Grid Frequency Range (Freq. Sync. Range)								90 Hz ±5%	casal								
3 Max Grid Import Power (KIV)	stw stw	10(W	1005	120W	1200	3900	1908		1400 330W	4007	430%	49/1/	640W	8305	80KW	950W	120KW
4 Max Battery Amps During Grid Charging (Amps)	55 27	70	35	80	40	108	54		81 108	136	136	82	109	272	272	217	272
5 Peak charging Efficiency (%)						1		>87									
VOTE ((Direnticed Protection at load and is applicable only is standalove mode ()	Ni ni Baturk poverfator																
INVERTER (KW)	8KW 8KW	10KW	1001	12KW	12KW	19W	19/1/	2008 2	WIGE 1004	4007	430/	480.0	6408	8005	80KW	95(W	120KW
1 PV Side	· ·	'					Re	verse Polarity , Surg Pr	rotection						-		
2 Battery Side							Reverse Poli	rity, Over/Under Vola	age , Current Limit								
3 Grid Side						Ove			Anti-Islanding.Surg Pro	tection							
4 Isad Side								Overloads, Short on									
S System Protection							Over Temperatu	re Trip,Breakers at all I	hputs,Emergency stop								
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