

**Smart power
Systems**

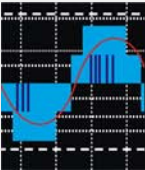
MANUFACTURING INNOVATIVE
POWER ELECTRONIC SYSTEMS
FOR THE 21st CENTURY HOMES,
INDUSTRIES AND DEFENSE.

PAVAN-25KW INVERTER

Features / Technology

- Unity Power Factor During Entire Operation
- Capable of Paralleling Modules
- Available Customer specific input voltage.
- Protection Against Islanding
- Adjustable Power Limit
- UL 1741 Approved





	Specification	Range			Units	Remarks / Verbal Spec / Conditions	
		Min	Nom	Max			
A	Input						
1	Input Voltage	200	230	254	VAC	Input variation +/- 10% Customer specific input can be available	
2	Limited value of input inrush current			500	A pk	Limiting Resistor with Contactor Bypass.	
3	Frequency	47	60	63	Hz		
4	System Efficiency	90	93	96	%		
5	Input Current (forward Mode)		115	125	Amps		
5	Surge Protection					Class D Surge Protection for Electronics within the unit.	
6	Input Power Factor Forward or Reverse Power Flow	0.98	0.99	1			
7	Turn ON Delay		5		Sec.	Output is available around in 5 secs after the systems is energized.	
B	Output						
	FORWARD MODE						
1	Output Voltage	550	750	800	VDC	Regulated during forward direction of power flow	
2	Output Power		25KW	30KW			
3	Output Current		40		Amps		
	REVERSE MODE						
1	Lock-in Frequency	47	60	63	Hz	Follows waveform at the mains input	
2	Lock-in Voltage Variation	209	230	253	VAC	Better than 220V +/- 5% (over input voltage range, including set point variations)	
3	Line Feed current	100	110	125	Amps		
4	THD - Input Current		3	5	%	Assuming power input is given from a source which has a Voltage-THD of better than 1% , and the load is a linear load. Max. output THD of 5% is valid for all load power factor	
5	Line Feed Power Capability		25	30	KVA		
6	Power Factor During Reverse power Flow	0.98	0.99	1	pf		
C	Physical						
1	Width,Depth,Height	19.7"x39"x47" (990x500x1194 mm)					
2	Weight	550lbs (250kg)					Includes Isolation Transformer
D	Safety / Protection / Alarms						
1	Cooling					Forced Air Cooled	
2	Protection	Appropriate Level					input line surge protection, lightning Protection, output load Short circuit protection, Thermal protection, auto current limit.
3	Isolation between Input and Output	4500			Vrms		
4	Isolation between Input and GND	4500			Vrms		
5	Isolation between Output and GND	1500			Vrms		
E	Compliance						
1	Construction					UL-1741	
2	Protection against Risk of injuries to persons					UL-1741	
3	Output Characteristics & Utility Compatibility					UL-1741	
4	Performance					UL-1741	
5	Marking					UL-1741	
6	Manufacturing & Production Tests					UL-1741	
F	Environmental						
1	EMI Specifications					Conforming to FCC regulations	
2	Audible Sound Level			65	dB	@ 1 meter distance	
3	Operational Temperature	-10	25	55	Deg. C		
4	Storage Temperature	-20		60	Deg. C		
5	Humidity			95%	RH		
6	Altitude			5000	Fi		
7	Shock					Standard Transit	
8	Vibration					Standard Transit	
9	Ruggedization					Suitable for outdoor installations	
G	User Interface						
1	Display-Front Panel					VFD Display with voltage, Current,KVA,PFC,Energy feedback, Diagnostics parameters.	
2	BITE / Diagnostics					Built in test diagnostics to identify failures and carry out quick maintenance	
3	Programming Inputs					No Controls / Programming. No user adjustable controls	
4	Control Inputs / Dry Contactors					Available for faults & interlocking	
5	Measurement					Input,Output,Energy Parameters	
6	Monitoring					Faults, Temperatures ,Airflow, Input & Output Parameters	
7	Alarms					High temperature, line error & output loss	
8	Communications Interface					RS485	
H	Miscellaneous						
1	MTBF		75000		Hrs	at 25 Deg. C	
2	Shipping Package					Skid Mounted unit	
3	Applicable Standards & Documents					UL-1741	