

SIMHA UNIVERSAL DRIVE

Leading a New Start



SUPPORTS WIDE
VARIETY OF MOTORS



DUST-PROOF & RAIN-PROOF
IP 65 DESIGN



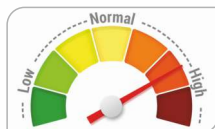
PLUG & PLAY
SHOCK-PROOF CONNECTORS



POWERED WITH REMOTE
MONITORING SYSTEM



GRAPHICAL LCD FOR
EASY OPERATION



WIDE
TEMPERATURE RANGE



INDEPENDENT DATA
LOGGING FACILITY



MOBILE APP
CONTROL



Shakti's Simha Universal Drive is a unique product designed, developed and manufactured in India. This drive makes it possible to run agricultural and industrial motor pump sets using abundant and free solar energy. It supports wide varieties of motors by virtue of its universal design. Its IP 65 design and rust-proof metallic enclosure provides protection from foreign particles (e.g. rain, dust, oil) which obsoletes the need for extra outer case. Moreover, the advanced MPPT algorithm puts it in the list of premium renewable energy products. Therefore, this product is recommended by experts for its unique features, efficiency, zero operating cost, plug and play installation, electrically safe user handlings and longer period of warranty.

APPLICATION

All in one solution for driving of various motors like AC-IM, PMSM, IPMSM, S4RM, etc.

TECHNICAL SPECIFICATION

Product	SIMHA UNIVERSAL DRIVE						
Power	0.75 HP	1 HP	2 HP	3 HP	5 HP	7.5 HP	10 HP
Input (DC)							
AC Voltage range (if applicable)	207-245 VAC (1 ϕ)	90-245 VAC (1 ϕ)	90-245 VAC (1 ϕ)	200-440 VAC (3 ϕ)	200-440 VAC (3 ϕ)	360-460 VAC (3 ϕ)	360-460 VAC (3 ϕ)
Min. DC Voltage	40 V	70 V	90 V	200 V	200 V	200 V	200 V
Max. DC Voltage	150 V	180 V	360 V	450 V	720 V	550 V	720 V
Nominal DC Voltage	90 V	120 V	240 V	400 V	600 V	400 V	600 V
Start Voltage	50 V	90 V	90 V	200 V	200 V	200 V	200 V
MPPT Voltage Range	60 -150 V	90-180 V	90-360 V	200-450 V	300-720 V	250-550 V	300-720 V
Max. DC Input Current	10 A	10 A	10 A	10 A	10 A	20 A	20 A
Max. Power at DC Side	750 W	1000 W	2000 W	3000 W	5000 W	7500 W	10,000W
No. of MPPT	1						
No. of PV Strings	1	1	1	1	1	2	2
Output (AC)							
Nominal AC Voltage Range	0-120 VAC	0-120 VAC	0-200 VAC	0-415 VAC			
Frequency	0-400 Hz						
Max. AC current	12 A					20 A	
Rated Power at AC Side	750 W	850 W	1700 W	2900 W	4700 W	6400 W	9300 W
Power Factor	0.8 lead to 0.8 lag	0.7-1 at full load	0.7-0.9 at full load				
THD-	70-150%	70-150%	70-150%	70-150%	70-150%	70-150%	70-150%
slope-	4000 V/uS	4000 V/uS	4000 V/uS	7200 V/uS	7200 V/uS	7200 V/uS	7200 V/uS
Peak-	400 V	400 V	400 V	750 V	750 V	750 V	750 V
Connection Phases	3-Phase						
Efficiency							
Max. Efficiency	>90 %	>92%	>93%	>95%	>97%		
MPPT Efficiency	>99%						
General Data							
Protection	Short Circuit, Lighting/Surge, Over Temperature, Over Current, Over Voltage, Dry Run						
Ingress Protection	IP 65						
Certificates	IEC 61683, IEC 600682-2-(1,2,14,30), IS 16221-2(IEC 62109-2), IEC 60529, EN 50530						
Operating Temperature Range	-20°C to 70°C (45°C to 70°C with derating)						

WHY TO CHOOSE SHAKTI'S SIMHA UNIVERSAL DRIVE

OTHER DRIVES	SIMHA UNIVERSAL DRIVE
Relatively difficult installation & operation	Simple installation & operation with graphical LCD
Confusing connections with possibility of shock	Plug and play shock-proof connectors with unique connection
IP 20	IP 65 (Protection from dust and rain)
Remote Monitoring System (RMS)not available	Remote Monitoring System (RMS) inbuilt
Independent Data Logging Facility not available	Independent Data Logging Facility available
Mobile Application Facility not available	Mobile Application Facility available

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