

SIMULIFE Product Features	Competitors	Advantage SIMULIFE
<p>STATE OF ART TECHNOLOGY</p> <ul style="list-style-type: none"> • Low Rds ON Devices • Dual Processors* • Independent Dual grid voltage sensing* • Dual Grid connecting relays* • Robust control algorithms <p>* Feature of Elite series, GAN Series.</p>	<ul style="list-style-type: none"> • Single processor, Single Relay and Single Grid Sensor • Low on Efficiency • Low on Redundancy and Reliability 	<ul style="list-style-type: none"> • Low losses, High efficiency • Intelligence (32 bit DSP) and Redundancy built in • Dual Processor system controls two Relays in series connected to grid ensuring safety and protection against Relay weld faults • Each Processor sense grid voltage independently • Both processors in communication at all times and each can take over in Emergency conditions • Fast and precise control Algorithms and loops • Floating point operation for precise calculations • High Load Surge handling capability. Can handle, ACs, Dishwasher, Heavy duty Grinders, Geyser, Cold storage chillers etc.
<p>INBUILT MPPT ALGORITHM</p> <p>All products (from 100 VA) are equipped with Dynamic MPPT with Global maxima having a tracking efficiency of >99.7%</p>	<p>Most Products upto 3kW do not have MPPT. They are not efficient in extraction of available solar power</p>	<p>Highly superior efficiency in extracting maximum available Solar power with almost unparalleled tracking efficiency of > 99.7%.</p>
<p>WIDE PV INPUT RANGE</p> <ul style="list-style-type: none"> • Can handle upto 25% of additional panels over nominal power • Wide range of PV input voltage • Can take upto 350 Watts panel 	<p>Most products cannot handle additional PV input.</p>	<p>Higher flexibility in delivering efficient EPC solutions. Additional PV input helps in extraction of maximum power even under low light conditions.</p>
<p>3 STEP BATTERY CHARGER</p> <ul style="list-style-type: none"> • Constant current / BOOST 2 • BOOST 1 • FLOAT 	<p>Most products work on PWM technology, which dump power into battery with just an On and Off Switch</p>	<p>Advanced high frequency battery charger which baby protects the battery aiding it to last its expected life. No Bulging of batteries.</p>
<p>4 LAYER FR4 PCB</p>		<ul style="list-style-type: none"> • Fire retardant • PCB design is as per international design standard IPC-2221 • helps in improving EMI and safety
<p>GALVANIC ISOLATION and Quality Components</p>		<p>Safe to use, rugged and more reliable. Class H insulation used. Ball Bearing fans used.</p>

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INDEPENDENT CURRENT SENSORS	Resistive current shunts normally used – Lossy and inaccurate	High Performance Hall Effect Sensors for High Accuracy, Reliability, Linearity and Isolation
PV REVERSE POLARITY PROTECTION		Protects internal hardware circuitry against reverse PV connection
SHORT CIRCUIT PROTECTION		System capable of detecting short circuit at load side and protects from fire hazards
INTELLIGENT BATTERY ALGORITHM	No such feature	Intelligent in built Algorithm provides for savings on Power Bills
IN – BUILT PROTECTIONS <ul style="list-style-type: none"> • PV Reverse Polarity • Short Cicuit • Battery Reverse Polarity • Over Load • Output Over Voltage • Over Temperature • Battery under-voltage • Battery deep discharge 	Less Protection features offered	<ul style="list-style-type: none"> • Protects internal hardware circuitry against reverse PV connection • System capable of detecting short circuit at load side and protects from fire hazards • Safe shutdown on overload • Saves unit from faulty battery connection • Regulated output voltage • Touch safe operation • Protects expected battery life • Protection to battery and system
THD < 3.0%		Indicates highly Pure Sine Wave with very low Harmonic components
DESIGNED AND MANUFACTURED IN INDIA		Designed for Indian conditions-Rugged-works anywhere in the world easily All high quality components purchased directly from reputed manufacturers / distributors only ensuring quality product.
AFTER SALES SERVICE		Service backup within 24 hours. Assured product service support as it is designed and manufacture in INDIA.