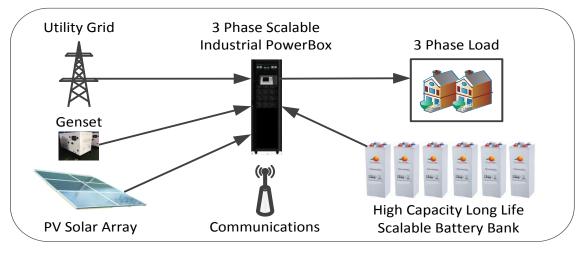




3 Phase Industrial Solar Green PowerBox

SCPV Rack Mount Modular 60kW – 210kW



MPPT Charge Controller

State-of-the-Art microprocessor controlled Maximum Power Point Tracking. The Modular design, allows for scalability across the range. Expandable up to 256 modules with an outstanding efficiency of 98%.

Energy Management Unit (EMU)

Designed for easy management, SCPV-Green PowerBox is equipped with graphic LCD screen. Intuitive design enhances display information and provides advanced configuration and management.

High efficiency online double conversion technology

SCPV - Green PowerBox is applied online double conversion technology with high efficiency up to 96% at over 50% load and 95% at 25% light load. It significantly reduces overall Total Cost of Ownership (TCO).

High scalability

DSP control provides an improved solution with high performance. Integrated with modular design and parallel technology, SCPV-Green PowerBox simplifies future power expansion.

Unity output power factor

SCPV - Green PowerBox delivers unity output power (kVA=kW) providing the maximum power capacity to mission critical loads. It satisfies the requirements of the latest servers and optimizes IT investment with every penny.

Modular design lowers MTTR

Modular design is applied in all MPPT and power modules, EMU module and battery module. It will simplify maintenance and replacement with low MTTR (Mean Time TO Repair).

Ease of installation and maintenance

Built-in maintenance bypass assures continuous power to critical loads during maintenance. Besides, to facilitate installation and maintenance, all panel control and connectors are front accessibility.

Flexible battery configuration adapts for different applications

The quantity of Batteries needed will be scaled to support differing power requirements.

Battery charging

SCPV-Green PowerBox provides maximum 25A charging current from each MPPT power module.

High overload capability

SCPV-Green PowerBox supports, 110% overload for 60minutes, 120% for 10minutes, and 150% for 1min.

N+1 or N+X parallel redundancy for power guarantee

Scalable architecture allows you to optimize cost expense to meet power demands by vertically expanding in a single rack enclosure from 60kW to 210kW and achieve N+1 or N+X redundancy in the same rack







Model	SCPV-60kW	SCPV-90kW	SCPV-120kW	SCPV-150kW	SCPV-180kW	SCPV-210kW				
PHASE	3-phase in / 3-phase ou									
TOTAL CAPACITY*	60 KW	90 KW	120 KW	150 KW	180 KW	210 KW				
POWER MODULES	2	3	4	5	6	7				
TOPOLOGY	True Double-Conversion		•	Ŭ	0					
INPUT										
Nominal Voltage	3 x 400 VAC (3Ph + N)									
Voltage Range	305 ~ 477 VAC @Full load; 208 ~ 304VAC@ <70% Load									
Nominal Frequency	50/60Hz (Auto Sensing)									
Frequency Range	40Hz~70Hz									
Power Factor	> 0.99 @ 100% Load , >0.98 @ 50% Load									
Harmonic Distortion (THDi)	< 3% @ 100% load									
OUTPUT										
Nominal Voltage	3 x 400 VAC (3Ph + N)									
Voltage Regulation (Steady state)	S \pm 1% Typical (balanced load) ; S \pm 2% Typical (unbalanced load)									
Voltage Regulation (Transient)	S ± 5% Typical									
Nominal Frequency	50/60Hz									
Frequency Range (Synchronized)	46Hz ~ 54Hz or 56Hz ~ 64Hz									
Overload Capability	1 hour for 110%, 10 minutes for 120%,; 1 min for 150%, 200ms for >150%									
Harmonic Distortion	S1% THD (Linear Load) ; S 4% THD (Non-linear Load)									
Efficiency	> 96% @ over 50% Load, > 95% @ over 25% Load									
MPPT Charge Controller Module				apacity)						
Vmin DC Volts	270V DC Input from PV array									
Vmax DC Voltage	520V DC Input from PV array									
Vmpp DC Voltage	300 - 450V DC Dynamic tracking for maximum power transfer									
Max Input Current	20A									
DC Input Power max	6kW per MPPT module, scalable to N x 6KW									
Voltage output DC nominal	240V DC									
Voltage output DC max	276V DC									
Maximum Charge Current	25A									
Battery Type	Valve Regulated Lead Acid battery									
Efficiency at full load %	98%									
Max No of MPPT Modules	Up to 256 modules									
Cooling	Twin Temperature controlled fans Overload Protection, Short Circuit Protection, Over and Under Voltage Protection, Over Temerature									
Protection	Overload Protection, Sh	ort Circuit Protec	tion, Over and Unc	ler Voltage Protec	tion, Over Temeratu	ıre				
Energy Management Unit (EMU)										
Display	Multi-digit LCD Display									
Connectivity	USB, Wi-Fi,									
Cabinet	4400	1)								
Full Size, D x W x H(mm)	1100 x 600 x 2030 (42L) mm								
ENVIRONMENT	0 4000									
Operation Temperature	0 ~ 40°C									
Relative Humidity	0 ~ 100% non-condensing									
Altitude	<1000m for Nominal po	wer								
STANDARDS	T									
Safety	IEC/EN 60950-1; IEC/EN 62040-1									
EMC	IEC/EN 62040-2 Catego	ory C3								

* When temperature is above 30°C, the output power will be de-rated 27kW @ 31 ~ 35°C and 24kW @ 36 ~ 40°C. * Product specifications are subject to change without further notice.

Full size (42U)							
60KVA	90KVA	120KVA	150KVA	180KVA	210KVA		
2	3	4	5	6	7		
Yes, 2+1	Yes, 3+1	No	Yes, 5+1	Yes, 6+1	Yes, 7+1		
Yes	Yes	External battery	External battery	External battery	External battery		
	2 Yes, 2+1	2 3 Yes, 2+1 Yes, 3+1	60KVA 90KVA 120KVA 2 3 4 Yes, 2+1 Yes, 3+1 No	60KVA 90KVA 120KVA 150KVA 2 3 4 5 Yes, 2+1 Yes, 3+1 No Yes, 5+1	60KVA 90KVA 120KVA 150KVA 180KVA 2 3 4 5 6 Yes, 2+1 Yes, 3+1 No Yes, 5+1 Yes, 6+1 Yes Yes External External External		