

# Universal PCS Hybrid Inverter Specifications

Efficiency				
MPPT Efficiency	> 99%			
Max. Charge Efficiency	98.20%			
Max. Discharge Efficiency	97.40%	97.70%	97.80%	97.70%
CEC Weight Efficiency	96.20%	96.40%	96.40%	96.50%
Battery Input / Output				
Max. Power	12.5 kW			
Voltage Range	360 ~ 584 Vdc			
Max. Current	36 A			
Grid Output				
Rated Power	7.5 kW	10 kW	11 kW	12.5 kW
Max. Output Current (@ 240V)	32 A	42 A	45.8 A	52 A
Rated Voltage	120 / 240 Vac Split Phase			
Rated Frequency	60 Hz			
Adjustable Power Factor	0.8 Leading ~ 0.8 Lagging			
THD	≤ 3%			
Max Output Fault Current And Duration Synchronization In-Rush Current	120Apeak@49.8μs <42 A			
Grid / Generator Input				
Rated Power	7.5 kW	10 kW	11 kW	12.5 kW
Voltage Range	216 Vac ~ 264 Vac			
Frequency Range	55 Hz ~ 65 Hz			
Max. Input Current	52 A	52 A	52 A	52 A
Load Output				
Rated Power	7.5 kVA	10 kVA	11 kVA	12.5 kVA
Rated Voltage	120 / 240 Vac Split Phase			
Rated Frequency	60 Hz			
Overload Capacity	110%@10 min, 120%@1 min, 130%@10S			
Rated Current	32 A	42 A	45.8 A	52 A
Max Output Fault Current And Duration	41.6 A @10s	54.6 A @10s	59.54 A @10s	67.6 A @10s
Standards Compliance				
EMC	FCC Part 15 Class B			
Grid Connection Standards	IEEE 1547A, Rule 21			
Safety	UL9540, UL1741, UL1741SA, UL1998, CSA C22.2			

PV Input	
Max. Power of PV	2 * 8.5 kWp
Voltage Range	175 Vdc ~ 530 Vdc *
MPPT Voltage Range	175 Vdc ~ 480 Vdc
Full Load MPPT Voltage Range	250 Vdc ~ 480 Vdc
MPPT Channels	2
Max. Current	2 * 26 A
Max Backfeed Current	0A
Number of Input	2
* The highest voltage shall be no higher than the rated voltage of battery; so voltage shall be no higher than 360V for iCAN NetZero Plus.	
Protection	
DC Switch	Over Current Protection
Rapid Shutdown (RSD)	DC surge Protection
Anti-islanding Protection	AC Surge Protection
DC Reverse Polarity Protection	Leakage-Current Protection
Over Temperature Protection	Insulation Monitoring
Ground-Fault Isolation Detection	
General	
Dimensions (W * H * D)	25.6 in*24.4 in*9.5 in (650 mm*620 mm*241.5 mm)
Weight	95 lbs (43 kg)
Communication Interface	Wi-Fi, Ethernet, 4G, RS485, CAN
Display	LED, iOS / Android App
Topology	Transformerless
Operating Temperature Range	-13°F ~ 140°F (-25°C ~ 60°C) Derating when temperature is higher than 45°C
Relative Humidity	0 ~ 95% (No Condensation)
Cooling	Passive cooling through aluminum heatsink, external weatherproof fan to improve performance
Protection Rating	NEMA 4X (IP65)
Altitude	≤9842 ft (3000 m)
Noise Emission	< 55 dB(A)

