

Specifications

Model No.	12 Volt System C3-1500-12X ⁽¹⁾ C3-1500-24X C3-1500-48X	24 Volt System C3-3000-12X ⁽¹⁾ C3-3000-24X C3-3000-48X	48 Volt System C3-6000-24X ⁽¹⁾ C3-6000-48X
GENERAL			
Ventilation	Forced cooling		
Temperature – Operation – Storage	- 20°C ~ + 70°C - 25°C ~ + 80°C		
Protection	Output short circuit, Over load, Battery overvoltage, Battery undervoltage, Battery reverse polarity detection, Over temp., High input voltage ripple		
Humidity	0 ~ 95 % (non condensing)		
Power Control Function	✓		
Power Assist Function	✓		
Uninterrupted AC Power	✓ (Less than 10 msec)		
Adaptive 4-stage Charge	✓		
Two output to charge 2 battery banks	✓		
Auxiliary Relay	X 3		
Battery Voltage Sensor	✓		
INVERTER			
Input Voltage Range (VDC)	12V-(9.5 -16V) 24V-(19-32V) 48V-(38-64V)	24V-(19-32V) 48V-(38-64V)	
Output Voltage (VAC)	210 ~ 245 V / 94 ~ 128 V		210 ~ 245 V
Output Frequency	50Hz / 60Hz ± 0.1%		
Output Waveform	True Pure Sinewave		
Output Voltage THD	< 5%		
Power Factor (All Loads)	✓		
No linger load, crest factor	3 : 1		
Cont. Power Output @ 70°C (W) Under 70°C (cos φ=1.0)	1500Watt (No derate 70°C)	3000Watt (No derate 70°C)	6000Watt (No derate 70°C)
Cont. Power Output (W) Over 70°C (cos φ=1.0)	0W (Shutdown)		
Maximum Power (W)	3000W	6000W	12000W
Maximum Efficiency (%)	82 / 84 / 85	84 / 86 / 89	88 / 90
Zero-load Power (W)	(8W Power Save) 12W (Normal)	(12W Power Save) 18W (Normal)	(18W Power Save) 36W (Normal)

CHARGER			
Input Voltage Range (VAC)	180 ~ 265 VAC / 94 ~ 138 VAC	180 ~ 265 VAC	
Input Frequency	45 - 55 Hz / 55 - 65 Hz		
Power Factor	1		
Charge Characteristic	4-stage adaptive Bulk-Absorption-Float-Equalize + Safe		
Maximum DC Voltage Ripple (Vrms)	< 1.25V		
Charge Current House Battery (A)	70A / 40A / 20A	140A / 70A / 40A	140A / 70A
Charge Current Starter Battery (A)	4A		
Output Charging Voltage (VDC)	12V~16V / 24V~32V / 48V~64V	24V ~ 32V 48V ~ 64V	
Absorption Voltage Default (VDC)	14.4V / 28.8V / 57.6V		28.8V 57.6V
Float Voltage Default (VDC)	13.8V / 27.6V / 55.2V		27.6V 55.2V
Equalize Voltage Default (VDC)	13.2V / 26.4V / 52.8V		26.4V 52.8V
Output Charge Voltage (min - max)	8V~16V / 11V~32V / 22V~64V	11V ~ 32V 22V ~ 64V	
Battery Temperature Sensor	BTS-3 (optional)		
AC INPUT SWITCH			
AC IN Terminal Circuit Breaker	30A (110V) 15A (220V)	60A (110V) 30A (220V)	60A (220V)
AC IN Auto Transfer Switch Current	32A (110V) 16A (220V)	63A (110V) 32A (220V)	64A (220V)
Switch-over Time			
a. inverter to AC input	0 msec		
b. AC input to inverter	0 msec		
Detection Time AC Input Fault	4 ~ 10 msec		
MECHANICAL			
Cabinet / Protecting Class	Aluminum / IP20		
Dimension (H x W x D) mm	298 x 256 x 368	355 x 256 x 368	460 x 290 x 400
Weight (kgs)	21	27	44
OPTIONS			
Remote Controller	Remote monitoring available, optional cables: 3M / 15M		
Battery Temperature Sensor (BTS-3)	Compensation for the battery charging voltage and current		
PC Programming Unit (PPU-C3)	Programming and monitoring the values displayed in PC		

* (1) X should be 1, output voltage = 94~128 VAC or 2, output voltage = 210~245 VAC

