



Technical Specifications

TG-Power Box US Series

Model	TG 8020-UF1A1
Efficiency	
Max Efficiency	98%
CEC Efficiency	97%
On Grid AC Output	
Rate AC Output Power	8KVA
AC Output Voltage	120/240Vac(split phase), 208Vac(2/3 phase), 230Vac(single phase)
AC Output Frequency	50/60Hz
Grid Type	Split phase, 2/3 phase, Single Phase
Max Output Current	38.3A
AC reverse charging	Yes
P F	-0.8leading~ +0.8lagging
Output THDI	< 2%
PV Input	
PV input power	12KW
MPPT number	4
PV voltage range	350V/85V - 500V
MPPT voltage range	120V-500V
Single MPPT input current	12A
Battery	
Nominal Voltage	51.2V
Full Charge Voltage (FC)	56V
Full Discharge Voltage (FD)	45V
Typical Capacity	400Ah
Maximum Continuous Discharging Current	190A
Maximum Discharging Current	190A
Protection	BMS, Breaker
Inner Resistance	20 m ohm
Protection	
Ground protection	YES
AFCL protection	YES
Islanding protection	YES
DC disconnect detection	YES
Battery Reverse protection	YES
Battery charge and discharge protection	YES
Insulation testing	YES
GFCI	YES
DC anti-thunder	YES
AC anti-thunder	YES
Input overvoltage & under-voltage protections	YES
Output overvoltage & under-voltage protections	YES
AC & DC over-current protection	YES
AC short-circuit current protection	YES
Overheating protection	YES
General Data	
Operation Temperature range	-25 ~ +60 Centigrade scale
Environment humidity	0-95%
Altitude	0-4000M over 2000M derating
System parameters	
Dimension, D x W x H (mm)	650*542*1970
Net Weight (kg)	340
IP rank	IP54