

MAX OUTPUT WATTAGE[W] *5		16.8	15.0
	VOLTAGE[V] *6	±12 (+24)	±15 (+30)
DC OUTPUT	CURRENT1[A]	0.7	0.5
	CURRENT2[A] *5	1.4	1.0

SPECIFICATIONS

	MODEL		PBW15F-12		PBW15F-15				
	VOLTAGE[V]		AC85 - 264 1 φ or DC110 - 370 (AC50 or DC70 Please refer to the instruction manual 2.1 Input voltage ★8)						
		ACIN 100V	0.40typ (CURRENT1)						
	CURRENT[A]	ACIN 200V	0.20typ (CURRENT1)						
	FREQUENCY[Hz]		50/60 (47 - 440) or DC						
IPUT		ACIN 100V	74typ (CURRENT1)		78typ (CURRENT1)				
-	EFFICIENCY[%]	ACIN 200V	77typ (CURRENT1)		80typ (CURRENT1)				
		ACIN 100V	15typ (CURRENT1) (At cold start)					
	INRUSH CURRENT[A]		30typ (CURRENT1) (At cold start)						
	LEAKAGE CURRENT[mA]		0.15/0.30max (ACIN 100V/240V 60Hz, Io=100%, According to IEC60950-1,DENAN)						
	VOLTAGE[V]		±12	/ (+24V reference number)	±15	/ (+30V reference number)			
	CURRENT1[A]		0.7	/ 0.7	0.5	/ 0.5			
	CURRENT2[A]	*5	1.4	/ -	1.0	/ -			
	LINE REGULATION(m)	/] *1	60max	/ 96max	60max	/ 96max			
	LOAD REGULATION 1	[mV] 👬	600max	/ 150max	600max	/ 150max			
	LOAD REGULATION 2	[mV] ∦	750max	/ -	750max	/ -			
		0 to +50°C *1	120max	/ 240max	120max	/ 240max			
	RIPPLE[mVp-p]	-10 - 0℃ *1	160max	/ 320max	160max	/ 320max			
UTPUT		0 to +50°C *1	150max	/ 300max	150max	/ 300max			
	RIPPLE NOISE[mVp-p]	-10 - 0℃ *1	180max	/ 360max	180max	/ 360max			
		0 to +50°C	120max		150max				
	TEMPERATURE REGULATION[mV]	-10 to +50℃	150max		180max				
	DRIFT[mV]	*2	48max 60max						
	START-UP TIME[ms]		200typ(ACIN 100V, Io=100%) *Start-up time is 700ms typ for less than 1minute of applying input again from turning off the input voltage						
	HOLD-UP TIME[ms]		20typ (ACIN 100V, Io=100%)						
	OUTPUT VOLTAGE ADJUSTMEN	T RANGE[V]	9.60 - 13.2 (+V and -	/ are simultaneously adjusted)	13.2 - 16.5 (+V and	-V are simultaneously adjusted)			
	OUTPUT VOLTAGE SET	TING[V]	11.5 - 12.5 (+V and -	/ CURRENT1)	14.4 - 15.6 (+V and	-V CURRENT1)			
	OVERCURRENT PROT	ECTION	Works over 105% of rated current and recovers automatically						
ROTECTION	OVERVOLTAGE PROTEC	TION[V]	16.8 - 24.0	·	20.0 - 29.0				
IRCUIT AND	OPERATING INDICATI	ON	LED (Green)						
	REMOTE ON/OFF		None						
	INPUT-OUTPUT		AC3,000V 1minute, Cutoff current = 10mA, DC500V 50MΩ min (At Room Temperature)						
SOLATION	INPUT-FG		AC2,000V 1minute, Cutoff current = 10mA, DC500V 50M Ω min (At Room Temperature)						
	OUTPUT-FG		AC500V 1minute, Cutoff current = 25mA, DC500V 50M Ω min (At Room Temperature)						
	OPERATING TEMP., HUMID.AND) ALTITUDE							
NVIRONMENT	STORAGE TEMP.,HUMID.AND	ALTITUDE	e , i i i i i i i i i i						
NVIRONMENT	VIBRATION		10 - 55Hz, 19.6m/s ² (2G), 3minutes period, 60minutes each along X, Y and Z axis						
	IMPACT		196.1m/s ² (20G), 11ms, once each X, Y and Z axis						
AFETY AND	AGENCY APPROVALS (At only AC input)		UL60950-1, C-UL(CSA60950-1), EN60950-1, EN50178 Complies with DEN-AN						
IOISE	CONDUCTED NOISE		Complies with FCC Part15 classB, VCCI-B, CISPR22-B, EN55011-B, EN55022-B						
EGULATIONS	HARMONIC ATTENUATOR		Complies with IEC61000-3-2 (Not built-in to active filter *7) *12						
OTUEDO	CASE SIZE/WEIGHT		31x78x85mm [1.22x3.07x3.35 inches] (without terminal block) (WxHxD) / 200g max (with cover : 235g max)						
DTHERS	COOLING METHOD		Convection						

*1 Measured by 20MHz oscilloscope or Ripple-Noise meter(equivalent to KEISOKU-GIKEN : RM101).

- side is fixed. The sum of +power -power must be less than output power. *5
- *6 ±12,±15 can be used as +24 and +30.
 *7 When two or more units are used, they may not comply with the harmonic attenuator. Please contact us for details.
- *8 Derating is required.
- *9 Figures to rated current 1.

- *10 Please contact us about safety approvals for the model with option.
- *11 Please contact us about dynamic load and input response.
- *12 Please contact us about class C. *
- Parallel operation with other model is not possible.
- * Derating is required when operated with cover. *
- A sound may occur from power supply at peak loading.

PBA/PBW-26

*2

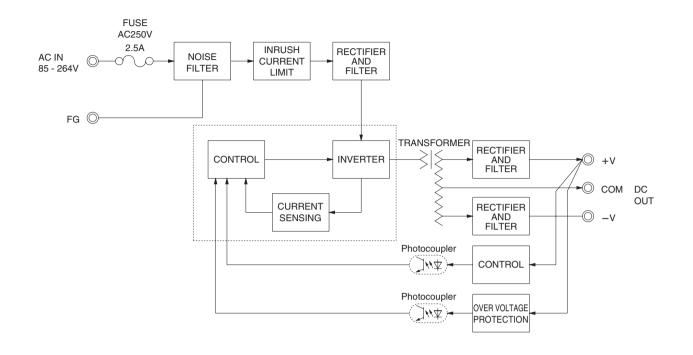
*3

Figures for 0 to rated current 1.The current not measured side is fixed.

Drift is the change in DC output for an eight hour period after a half-hour warm-up at 25°C.

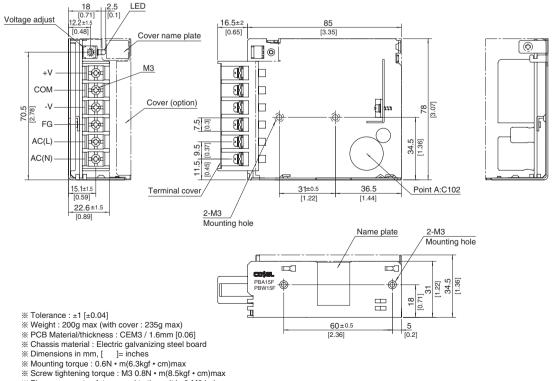
- *4 Figures for 0 to rated current 2.The current not measured

Block diagram

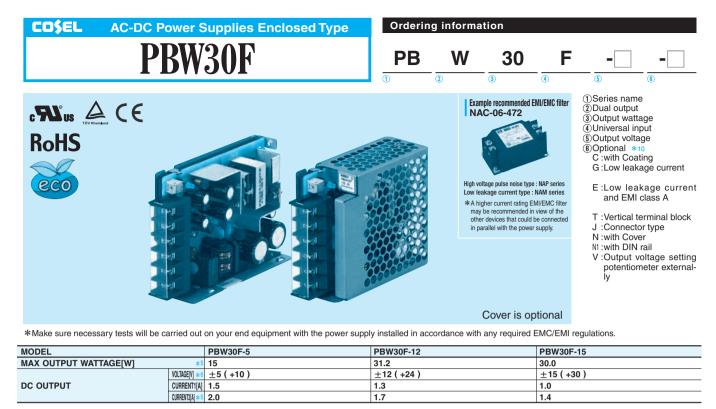


External view

% External size of option T,J,N,N1 and V is different from standard model and refer to 7 Option of instruction manual for details.



* Please connect safety ground to the unit in 2-M3 holes.



SPECIFICATIONS

	MODEL		PBW30F-5		PBW30F-12		PBW30F-15						
	VOLTAGE[V]		AC85 - 264 1 ϕ or DC110 - 370 (AC50 or DC70 Please refer to the instruction manual 2.1 Input voltage $*8$)										
	ACIN 100V		0.4typ (CURRENT1) 0.7typ (CURRENT1)										
INPUT	CURRENT[A]	ACIN 200V	0.25typ (CURRENT1) 0.4typ (CURRENT1)										
	FREQUENCY[Hz]		50/60 (47 - 440) or DC										
		ACIN 100V	75typ (CURREN	T1)	77typ (CURRENT1)		78typ (CURRENT1)						
	EFFICIENCY[%]	ACIN 200V	75typ (CURRENT1)		81typ (CURRENT1)		79typ (CURRENT1)						
		ACIN 100V	15typ (CURREN	5typ (CURRENT1) (At cold start)				· ·					
	INRUSH CURRENT[A]		30typ (CURRENT1) (At cold start)										
	LEAKAGE CURRENT[mA]		0.30/0.65max (ACIN 100V/240V 60Hz, Io=100%, According to IEC60950-1.DENAN)										
	VOLTAGE[V]		±5	/ (+10V reference number)	±12	/ (+24V reference number)	±15	/ (+30V reference number					
	CURRENT1[A]		1.5	/ 1.5	1.3	/ 1.3	1.0	/ 1.0					
	CURRENT2[A]	*5	2.0	/ -	1.7	/ -	1.4	/ -					
	LINE REGULATION[m]	/] * ⁹	20max	/ 36max	60max	/ 96max	60max	/ 96max					
	LOAD REGULATION 1	[mV] *3	250max	/ 100max	600max	/ 150max	600max	/ 150max					
	LOAD REGULATION 2	[mV] 👬	500max	/ -	750max	/ -	750max	/ -					
	RIPPLE[mVp-p]	0 to +50°C *1	80max	/ 240max	120max	/ 240max	120max	/ 240max					
	RIPPLE[IIIvp-p]	-10 - 0°C *1	140max	/ 320max	160max	/ 320max	160max	/ 320max					
OUTPUT	RIPPLE NOISE[mVp-p]	0 to +50°C *1	120max	/ 300max	150max	/ 300max	150max	/ 300max					
	RIPPLE NOISE[mvp-p]	-10 - 0°C *1	160max	/ 360max	180max	/ 360max	180max	/ 360max					
	TEMPERATURE REGULATION(mV)	0 to +50℃	50max		120max		150max						
		-10 to +50℃	60max		150max		180max						
	DRIFT[mV] *2				48max		60max						
	START-UP TIME[ms]		200typ(ACIN 100V, Io=100%) * Start-up time is 700ms typ for less than 1minute of applying input again from turning off the input voltage.										
	HOLD-UP TIME[ms]		20typ (ACIN 100V, Io=100%)										
	OUTPUT VOLTAGE ADJUSTMENT RANGE[V]							-V are simultaneously adjusted					
	OUTPUT VOLTAGE SETTING[V]					14.4 - 15.6 (+V	and -V CURRENT1)						
		ECTION	Works over 105% of rated current and recovers automatically										
PROTECTION CIRCUIT AND			6.90 - 10.0 16.8 - 24.0				20.0 - 29.0						
OTHERS	OPERATING INDICATION		LED (Green)										
	REMOTE ON/OFF		None										
	INPUT-OUTPUT		AC3.000V 1minute, Cutoff current = 10mA, DC500V 50MΩ min (At Room Temperature)										
SOLATION	INPUT-FG		AC2,000V 1minute, Cutoff current = 10mA, DC500V 50M Ω min (At Room Temperature)										
	OUTPUT-FG		AC500V 1minute, Cutoff current = 25mA, DC500V 50M Ω min (At Room Temperature)										
	OPERATING TEMP.,HUMID.AND ALTITUDE												
	STORAGE TEMP., HUMID.AND ALTITUDE												
	VIBRATION		10 - 55Hz, 19.6m/s ² (2G), 3minutes period, 60minutes each along X, Y and Z axis										
	IMPACT		196.1m/s ² (20G), 11ms, once each X, Y and Z axis										
	AGENCY APPROVALS (At only AC input)												
	CONDUCTED NOISE		Complies with FCC Part15 classB, VCCI-B, CISPR22-B, EN55011-B, EN55022-B										
REGULATIONS	HARMONIC ATTENUAT	OR	Complies with IEC61000-3-2 (Not built-in to active filter *7) *12										
OTHERS	CASE SIZE/WEIGHT		31 x 78 x 103mm [1.22 x 3.07 x 4.06 inches] (without terminal block) (W x H x D) / 270g max (with cover : 310g max)										
	COOLING METHOD		Convection					Convection					

*1 Measured by 20MHz oscilloscope or Ripple-Noise

meter(equivalent to KEISOKU-GIKEN : RM101).

*2 Drift is the change in DC output for an eight hour period after a half-hour warm-up at 25 °C.

*3 Figures for 0 to rated current 1. The current not measured side is fixed.

*4 Figures for 0 to rated current 2.The current not measured

side is fixed.

*5 The sum of +power -power must be less than output power. *6 $\pm 5 \pm 12 \pm 15$ can be used as $\pm 10 \pm 24$ and ± 30

*6 ±5,±12,±15 can be used as +10,+24 and +30.
*7 When two or more units are used, they may not comply with the harmonic attenuator. Please contact us for details.

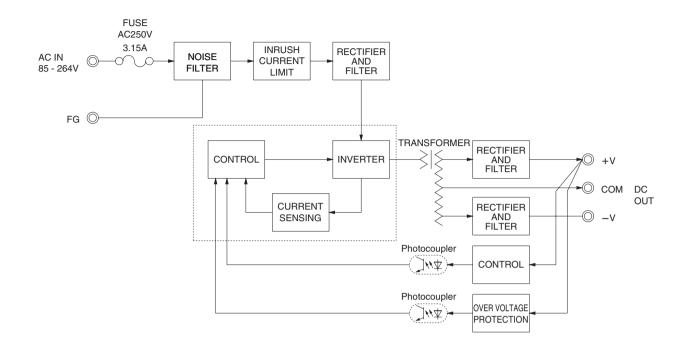
- the harmonic attenuator. Please contact us for details. *8 Derating is required.
- *9 Figures to rated current 1.

- *10 Please contact us about safety approvals for the model with option.
- *11 Please contact us about dynamic load and input response.
- *12 Please contact us about class C.
 * Parallel operation with other model is possible.
 - Parallel operation with other model is not possible.
- Derating is required when operated with cover.
 A sound may occur from power supply at peak loading.

PBA/PBW-28

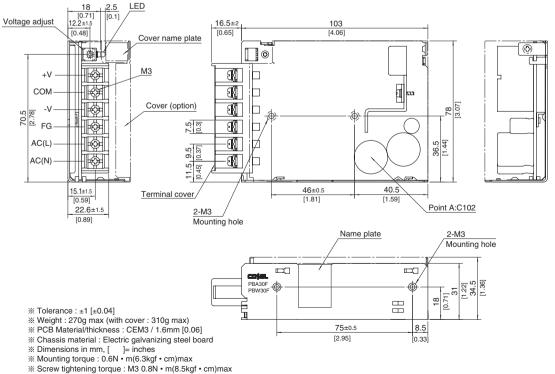
PBW30F | CO\$EL

Block diagram

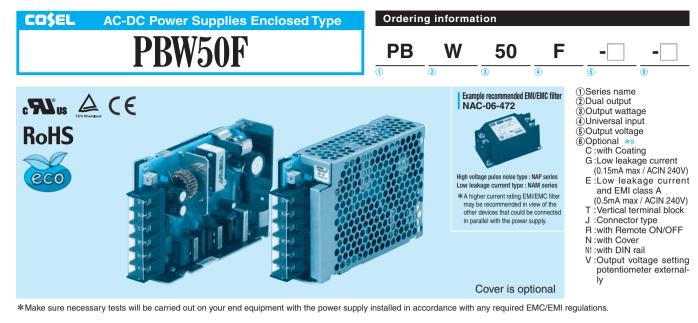


External view

% External size of option T,J,N,N1 and V is different from standard model and refer to 7 Option of instruction manual for details.



* Please connect safety ground to the unit in 2-M3 holes.



MODEL		PBW50F-5	PBW50F-12	PBW50F-15
MAX OUTPUT WATTAGE[W] *6		30	50.4	51
	VOLTAGE[V] *8	±5(+10)	±12 (+24)	±15(+30)
DC OUTPUT	CURRENT1[A]	3.0	2.1	1.7
	CURRENT2[A] *6	4.0	2.7	2.4

SPECIFICATIONS

	MODEL		PBW50F-5		PBW50F-12		PBW50F-15			
	VOLTAGE[V]		AC85 - 264 1	φ or DC120 - 370 (AC50 o	or DC70 Please refer t	to the instruction manua	al 2.1 Input voltage	e *3)		
		ACIN 100V	0.45typ (CURRENT1) 0.70typ (CURRENT1)							
INPUT	CURRENT[A]	ACIN 200V	0.30typ (CURI	RENT1)	0.40typ (CURREN	0.40typ (CURRENT1)				
	FREQUENCY[Hz]		50/60 (47 - 63)							
		ACIN 100V	76typ (CURRE	ENT1)	81typ (CURRENT1)		81typ (CURRENT1)			
	EFFICIENCY[%]	ACIN 200V	77typ (CURRE	ENT1)	83typ (CURRENT1)	83typ (CURREN	T1)		
		ACIN 100V	0.98typ		0.99typ	0.99typ				
	POWER FACTOR(Io=100%)	ACIN 200V	0.87typ		0.93typ					
		ACIN 100V	15typ (CURRE	ENT1) (At cold start)						
	INRUSH CURRENT[A]		30typ (CURRENT1) (At cold start)							
	LEAKAGE CURRENT[mA]		0.40/0.75max (ACIN 100V/240V 60Hz. lo=100%. According to IEC60950-1,DENAN)							
	VOLTAGE[V]		±5	/ (+10V reference number		/ (+24V reference number)	±15	/ (+30V reference number		
	CURRENT1[A]		3.0	/ 3.0	2.1	/ 2.1	1.7	/ 1.7		
	CURRENT2[A]	*6	4.0	/ -	2.7	/ -	2.4	/ -		
	LINE REGULATION[mV]		20max	/ 36max	48max	/ 96max	60max	/ 96max		
	LOAD REGULATION 1	[mV] *4	250max	/ 100max	600max	/ 150max	600max	/ 150max		
	LOAD REGULATION 2	[mV] *5	500max	/ -	750max	/ -	750max	/ -		
		0 to +50°C *1	80max	/ 240max	120max	/ 240max	120max	/ 240max		
	RIPPLE[mVp-p]	-10 - 0°C *1	140max	/ 320max	160max	/ 320max	160max	/ 320max		
UTPUT		0 to +50°C *1	120max	/ 300max	150max	/ 300max	150max	/ 300max		
	RIPPLE NOISE[mVp-p]	-10 - 0°C *1	160max	/ 360max	180max	/ 360max	180max	/ 360max		
		0 to +50℃			120max		150max			
	TEMPERATURE REGULATION[mV]	-10 to +50°C				150max				
	DRIFT[mV] *2		20max 48max		180max 60max					
	START-UP TIME[ms]		350typ(ACIN 100V, lo=100%)							
	HOLD-UP TIME[ms]		20typ (ACIN 100V, Io=100%)							
	OUTPUT VOLTAGE ADJUSTMENT RANGE[V]		4.99 - 6.00 (+V and -V are simultaneously adjusted) 9.60 - 13.2 (+V and -V are simultaneously adjusted)		13.2 - 16.5 (+V and -	-V are simultaneously adjusted				
	OUTPUT VOLTAGE SETTING[V]		4.99 - 5.30 (+V and -V CURRENT1) 11.5 - 12.5 (+V and -V CURRENT1)				and -V CURRENT1)			
	OVERCURRENT PROTECTION									
ROTECTION	OVERVOLTAGE PROTECTION[V]		6.90 - 10.0 16.8 - 24.0 20.0 - 29.0							
RCUIT AND	OPERATING INDICATION		LED (Green)							
THERS	REMOTE ON/OFF		Optional (Required external power source)							
	INPUT-OUTPUT · RC *7									
SOLATION	INPUT-FG		AC2.000V 1minute, Cutoff current = 10mA, DC500V 50MQ mm (At Room Temperature)							
	OUTPUT · RC-FG	*7	AC500V 1minute, Cutoff current = 100mA, DC500V 50M Ω min (At Room Temperature)							
	OPERATING TEMP. HUMID.AND		-10 to +71°C (Required Derating), 20 - 90%RH (Non condensing) 3,000m (10,000feet) max							
	STORAGE TEMP., HUMID.AND									
NVIRONMENT	VIBRATION		10 - 55Hz, 19.6m/s ² (2G), 3minutes period, 60minutes each along X, Y and Z axis							
	IMPACT		196.1m/s ² (20G), 11ms, once each X, Y and Z axis							
			UL60950-1, C-UL(CSA60950-1), EN60950-1, EN50178 Complies with DEN-AN							
AFETY AND	CONDUCTED NOISE		Complies with FCC Part15 classB, VCCI-B, CISPR22-B, EN55011-B, EN55022-B							
EGULATIONS	HARMONIC ATTENUA	TOR	Complies with IEC61000-3-2 *10							
	CASE SIZE/WEIGHT		31 x 82 x 120mm [1.22 x 3.23 x 4.72 inches] (without terminal block) (W x H x D) / 280g max (with cover : 325g max)							
THERS	COOLING METHOD		Convection							
	by 20MHz oscilloscope or I		e *5	Figures for 0 to rated curren	t 2.The current not measu		tact us about safety a	approvals for the model wi		
	ivalent to KEISOKU-GIKEN		nariad dec	side is fixed.	must be less them and the	option.	loot up ober a loor			
	change in DC output for an f-hour warm-up at 25℃.	eignt nour		The sum of +power -power r RC is applied to remote ON			tact us about class C eration with other mo			
*2 Doroting i			~ /	input/output and EG	on option. no is isolate		required when oner			

*3 Derating is required.

Figures for 0 to rated current 1.The current not measured *4 side is fixed.

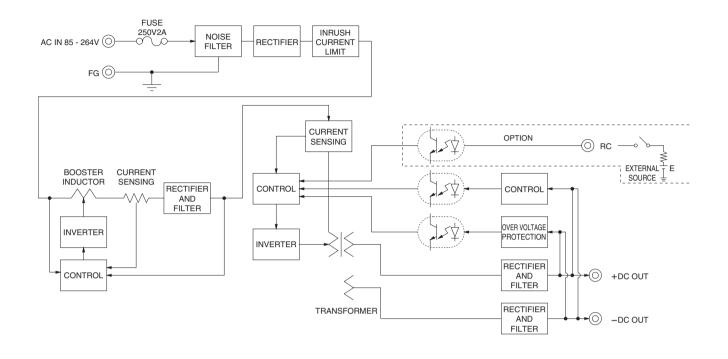
PBA/PBW-30

input/output and FG. *8 ±5,±12,±15 can be used as +10,+24 and +30. Derating is required when operated with cover.

* A sound may occur from power supply at peak loading.

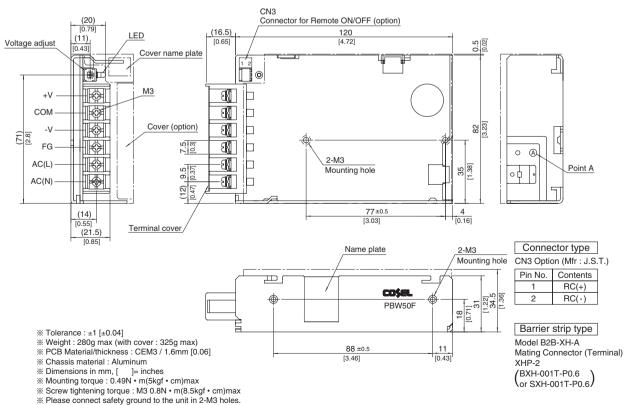
PBW50F | CO\$EL

Block diagram



External view





Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

Cosel:

PBW15F-12-C PBW15F-12-E PBW15F-12-G PBW15F-12-J PBW15F-12-N PBW15F-12-N1 PBW15F-12-T PBW15F-12-V PBW15F-15-C PBW15F-15-E PBW15F-15-G PBW15F-15-J PBW15F-15-N PBW15F-15-N1 PBW15F-15-T PBW15F-15-V PBW30F-12-C PBW30F-12-E PBW30F-12-G PBW30F-12-J PBW30F-12-N PBW30F-12-N1 PBW30F-12-T PBW30F-12-V PBW30F-15-C PBW30F-15-E PBW30F-15-G PBW30F-15-J PBW30F-15-N PBW30F-15-N1 PBW30F-15-T PBW30F-15-V PBW30F-5-C PBW30F-5-E PBW30F-5-G PBW30F-5-J PBW30F-5-N PBW30F-5-N1 PBW30F-5-T PBW30F-5-V PBW50F-12-C PBW50F-12-E PBW50F-12-G PBW50F-12-J PBW50F-12-N PBW50F-12-N1 PBW50F-12-T PBW50F-12-V PBW50F-15-C PBW50F-15-E PBW50F-15-G PBW50F-15-J PBW50F-15-N PBW50F-15-T PBW50F-15-T PBW50F-5-C PBW50F-5-E PBW50F-5-G PBW50F-5-J PBW50F-5-N PBW50F-5-N1 PBW50F-5-T PBW50F-5-V